

mathways 4 plus



Teacher's Edition



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W.W. BATES

Director of Mathematics
Toronto Board of Education

OLIVE FULLERTON

Assistant Director of Mathematics
Toronto Board of Education

PAUL BARBER

Teacher
Toronto Board of Education

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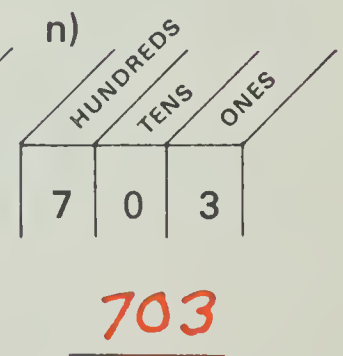
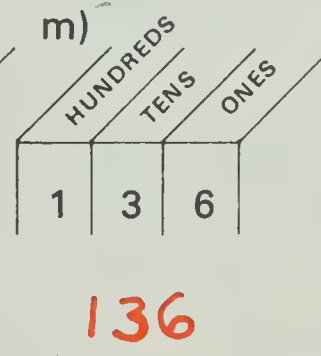
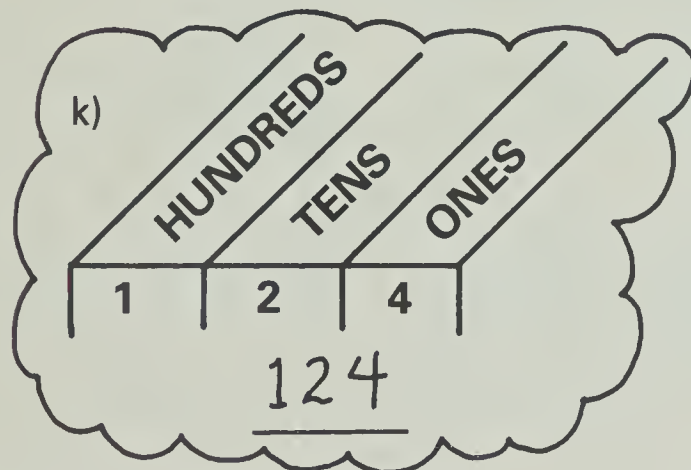
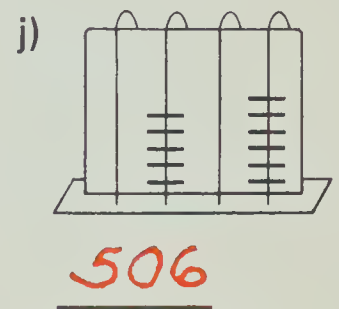
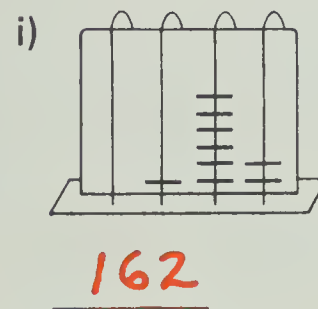
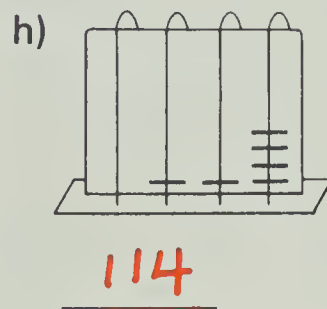
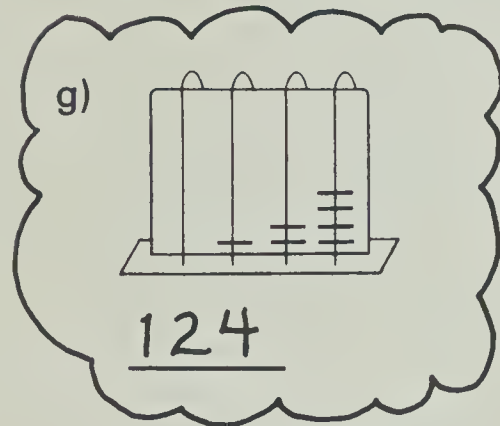
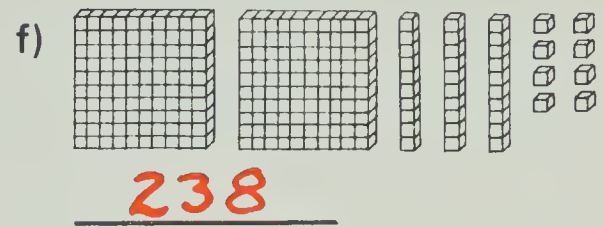
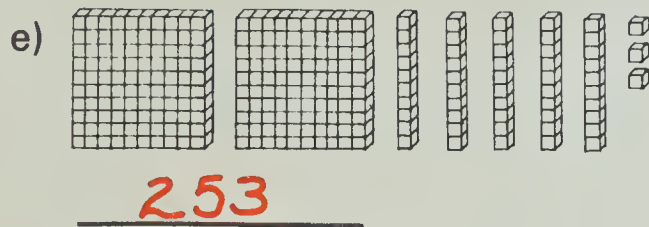
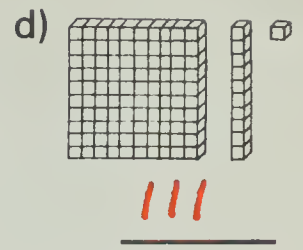
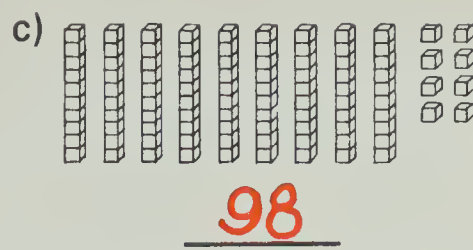
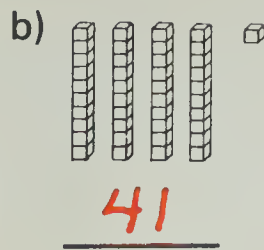
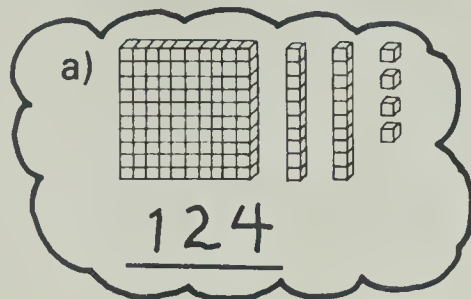
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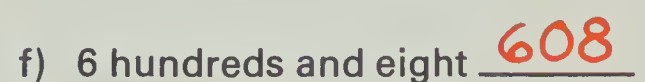
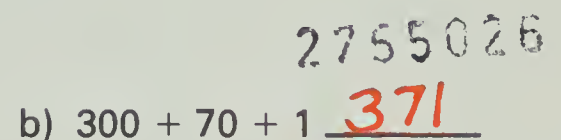
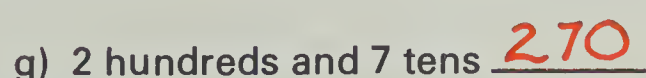
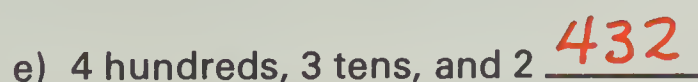
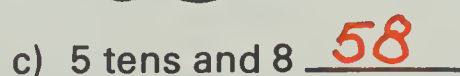
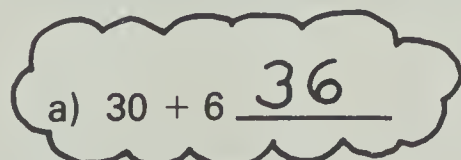
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1. What numbers are represented?



2. What numbers are represented?



1. Complete.

a)

Add.	
Number pair	Answer
(6, 7)	13
(5, 0)	5
(9, 8)	17
(8, 5)	13
(1, 9)	10
(7, 7)	14
(10, 3)	13
(7, 4)	11
(9, 6)	15
(13, 5)	18

b)

Subtract.	
Number pair	Answer
(11, 5)	6
(13, 6)	7
(19, 9)	10
(12, 6)	6
(12, 9)	3
(18, 9)	9
(13, 7)	6
(15, 7)	8
(11, 9)	2
(16, 8)	8

2. Solve.

a) $r = 6 + 3$ b) $s - 2 = 5$
 $r = \underline{9}$ $s = \underline{7}$

e) $k = 6 + 3 + 4$ f) $m + 9 = 18$
 $k = \underline{13}$ $m = \underline{9}$

c) $g = 17 + 7$ d) $b = 16 - 7$
 $g = \underline{24}$ $b = \underline{9}$

g) $q - 3 = 10$ h) $n = 13 - 6 + 1$
 $q = \underline{13}$ $n = \underline{8}$

3. What is the number? Write a sentence and solve.

a) A number add 6 equals 12.
 $K + 6 = 12$
 $K = 6$

b) A number subtract 6 equals 7.

$$K - 6 = 7$$

$$K = 13$$

c) A number equals 9 add 6.

$$K = 9 + 6$$

$$K = 15$$

d) 17 subtract a number equals 9.

$$17 - K = 9$$

$$K = 8$$

Complete the cross-number puzzle.

A 1	8		B 1					C 5	D 9
2		E 1	5			F 1	6		3
	G 1			H 1	I 1			J 1	
K 1	4			L 3	0			M 2	N 1
3		O 1	P 8			Q 1	R 3		1
		S 1	3			T 3	4		
U 1	V 2			W 1	X 5			Y 1	6
	9			Z 8	9			9	
AA 6		BB 1	7			CC 4	8		DD 9
EE 1	1					5		FF 1	4

Across

A $9 + 9$

C $63 - 4$

E $21 - 6$

F $9 + 7$

H $4 + 7$

K $8 + 6$

L $22 + 8$

M $17 + 4$

O $9 + 9$

Q $8 + 5$

S $4 + 9$

T $41 - 7$

U $7 + 5$

W $6 + 9$

Y $8 + 8$

Z $91 - 2$

BB $9 + 8$

CC $52 - 4$

EE $18 - 7$

FF $19 - 5$

Down

A $18 - 6$

B $7 + 8$

D $90 + 3$

G $8 + 6$

H $20 - 7$

I $18 - 8$

J $19 - 7$

K $18 - 5$

N $18 - 7$

O $6 + 5$

P $80 + 3$

Q $19 - 6$

R $30 + 4$

V $35 - 6$

W $11 + 7$

X $53 + 6$

Y $28 - 9$

AA $58 + 3$

CC $40 + 5$

DD $88 + 6$

1. Add.

a) $\begin{array}{r} 25 \\ 95 \\ 65 \\ \hline 17 \end{array}$ Think 15, 17

b) $\begin{array}{r} 6 \\ 4 \\ 7 \\ \hline \end{array}$

17

c) $\begin{array}{r} 2 \\ 2 \\ 8 \\ \hline \end{array}$

12

d) $\begin{array}{r} 6 \\ 4 \\ 8 \\ \hline \end{array}$

18

e) $\begin{array}{r} 7 \\ 2 \\ 3 \\ \hline \end{array}$

12

f) $\begin{array}{r} 5 \\ 6 \\ 7 \\ \hline \end{array}$

18

g) $\begin{array}{r} 6 \\ 5 \\ 8 \\ \hline \end{array}$

19

h) $\begin{array}{r} 8 \\ 6 \\ 6 \\ \hline \end{array}$

20

i) $\begin{array}{r} 6 \\ 5 \\ 9 \\ \hline \end{array}$

20

j) $\begin{array}{r} 5 \\ 9 \\ 5 \\ \hline \end{array}$

19

k) $\begin{array}{r} 5 \\ 8 \\ 7 \\ \hline \end{array}$

20

l) $\begin{array}{r} 9 \\ 3 \\ 6 \\ \hline \end{array}$

18

m) $\begin{array}{r} 5 \\ 4 \\ 7 \\ \hline \end{array}$

16

2. Add. Look at the pattern.

a) $\begin{array}{r} 9 \\ 4 \\ \hline 13 \end{array}$ $\begin{array}{r} 19 \\ 4 \\ \hline 23 \end{array}$ $\begin{array}{r} 29 \\ 4 \\ \hline 33 \end{array}$ $\begin{array}{r} 39 \\ 4 \\ \hline 43 \end{array}$

b) $\begin{array}{r} 6 \\ 9 \\ \hline \end{array}$

15

$\begin{array}{r} 26 \\ 9 \\ \hline \end{array}$

35

$\begin{array}{r} 36 \\ 9 \\ \hline \end{array}$

45

$\begin{array}{r} 46 \\ 9 \\ \hline \end{array}$

55

c) $\begin{array}{r} 7 \\ 8 \\ \hline \end{array}$

15

$\begin{array}{r} 17 \\ 8 \\ \hline \end{array}$

25

$\begin{array}{r} 57 \\ 8 \\ \hline \end{array}$

65

$\begin{array}{r} 67 \\ 8 \\ \hline \end{array}$

75

d) $\begin{array}{r} 5 \\ 8 \\ \hline \end{array}$

13

$\begin{array}{r} 25 \\ 8 \\ \hline \end{array}$

33

$\begin{array}{r} 75 \\ 8 \\ \hline \end{array}$

83

$\begin{array}{r} 85 \\ 8 \\ \hline \end{array}$

93

3. 14 story books.
7 poetry books.
How many books?

$14 + 7 = 21$
21 books

4. 23 red bicycles.
8 blue bicycles.
How many bicycles?

31 bicycles

5. 58 Rainbow trout.
9 Speckled trout.
How many trout?

67 trout

6. 26 peanut butter sandwiches.
8 tuna sandwiches.
How many sandwiches?

34 sandwiches

Subtract. $15 \begin{array}{r} \downarrow \\ 6 \\ \hline 9 \end{array}$ Think 9 $15 - 6 = 9$

$6 + 9 = 15$

Subtract. $15 \begin{array}{r} \downarrow \\ 9 \\ \hline 6 \end{array}$ Think 6 $15 - 9 = 6$

1. Subtract. Look at the pattern.

a) $\begin{array}{r} 15 \\ 7 \\ \hline 8 \end{array}$ $\begin{array}{r} 25 \\ 7 \\ \hline 18 \end{array}$ $\begin{array}{r} 35 \\ 7 \\ \hline 28 \end{array}$ $\begin{array}{r} 45 \\ 7 \\ \hline 38 \end{array}$

b) $\begin{array}{r} 13 \\ 8 \\ \hline 5 \end{array}$ $\begin{array}{r} 33 \\ 8 \\ \hline 25 \end{array}$ $\begin{array}{r} 43 \\ 8 \\ \hline 35 \end{array}$ $\begin{array}{r} 63 \\ 8 \\ \hline 55 \end{array}$

c) $\begin{array}{r} 19 \\ 7 \\ \hline 12 \end{array}$ $\begin{array}{r} 39 \\ 7 \\ \hline 32 \end{array}$ $\begin{array}{r} 69 \\ 7 \\ \hline 62 \end{array}$ $\begin{array}{r} 89 \\ 7 \\ \hline 82 \end{array}$

d) $\begin{array}{r} 24 \\ 6 \\ \hline 18 \end{array}$ $\begin{array}{r} 44 \\ 6 \\ \hline 38 \end{array}$ $\begin{array}{r} 74 \\ 6 \\ \hline 68 \end{array}$ $\begin{array}{r} 94 \\ 6 \\ \hline 88 \end{array}$

2. Subtract.

a) $\begin{array}{r} 18 \\ 6 \\ \hline 12 \end{array}$ b) $\begin{array}{r} 28 \\ 9 \\ \hline 19 \end{array}$ c) $\begin{array}{r} 52 \\ 7 \\ \hline 45 \end{array}$ d) $\begin{array}{r} 22 \\ 7 \\ \hline 15 \end{array}$ e) $\begin{array}{r} 43 \\ 7 \\ \hline 36 \end{array}$ f) $\begin{array}{r} 51 \\ 9 \\ \hline 42 \end{array}$ g) $\begin{array}{r} 83 \\ 8 \\ \hline 75 \end{array}$ h) $\begin{array}{r} 54 \\ 9 \\ \hline 45 \end{array}$

3. Use the correct symbol, $>$ or $<$ or $=$.

a) $17 - 6 > 18 - 9$ b) $21 - 4 = 23 - 6$ c) $32 - 5 > 30 - 4$

d) $46 - 9 = 39 - 2$ e) $24 - 8 < 22 - 5$ f) $67 - 9 = 61 - 3$

g) $36 - 7 < 39 - 7$ h) $29 - 5 = 31 - 7$ i) $40 - 9 < 43 - 6$

j) $51 - 5 < 56 - 9$ k) $44 - 8 < 50 - 7$ l) $83 - 9 < 87 - 4$

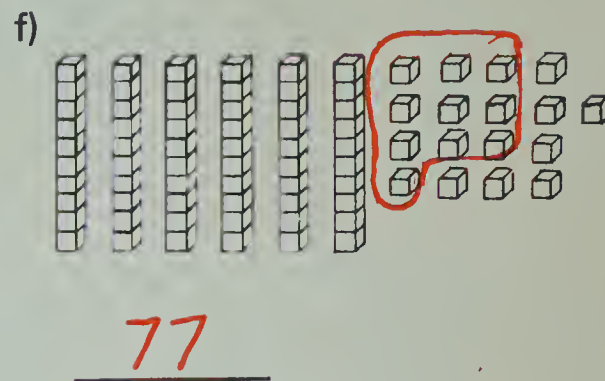
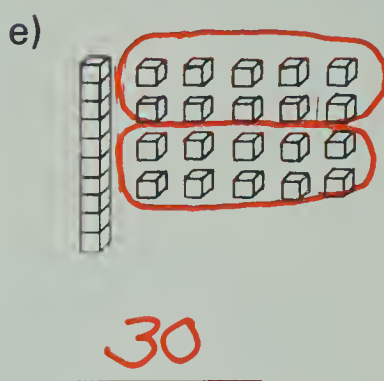
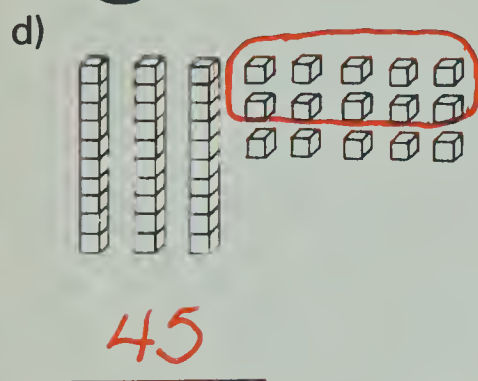
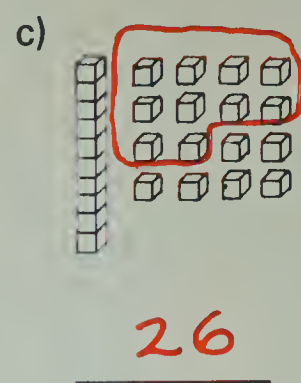
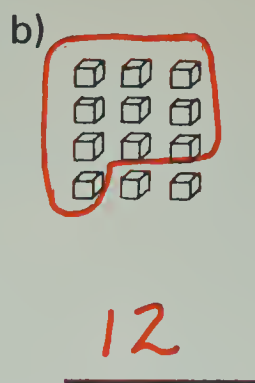
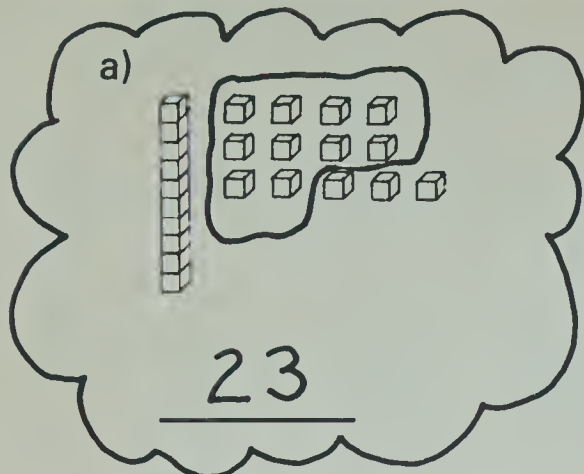
4. Sort.

14 - 7 5 + 2 + 3
10 3 + 4 12 - 3
12 - 6 4 + 1 + 2
18 - 9 12 - 2 6
2 + 4 14 - 3
4 7 - 1 10 - 3
4 + 6 7 + 2 6 + 3
11 - 2 11 - 4

$n < 8$
14 - 7
3 + 4
12 - 6
4 + 1 + 2
6
2 + 4
4
7 - 1
10 - 3
11 - 4

$n > 8$
5 + 2 + 3
10
12 - 3
18 - 9
12 - 2
14 - 3
4 + 6
7 + 2
6 + 3
11 - 2

1. Exchange 10 ones for 1 ten. Show the regrouping. Write the number.



2. Regroup. Exchange 10 ones for 1 ten.

a) $10 + 13 = \underline{20} + \underline{3} = \underline{23}$

b) $30 + 18 = \underline{40} + \underline{8} = \underline{48}$

c) $60 + 11 = \underline{70} + \underline{1} = \underline{71}$

d) $20 + 13 = \underline{30} + \underline{3} = \underline{33}$

e) $50 + 12 = \underline{60} + \underline{2} = \underline{62}$

f) $80 + 17 = \underline{90} + \underline{7} = \underline{97}$

3. Regroup. Exchange 1 ten for 10 ones.

a) $23 = \underline{20} + \underline{3} = \underline{10} + \underline{13}$

b) $26 = \underline{20} + \underline{6} = \underline{10} + \underline{16}$

c) $47 = \underline{40} + \underline{7} = \underline{30} + \underline{17}$

d) $33 = \underline{30} + \underline{3} = \underline{20} + \underline{13}$

e) $59 = \underline{50} + \underline{9} = \underline{40} + \underline{19}$

f) $46 = \underline{40} + \underline{6} = \underline{30} + \underline{16}$

1. Add this way.

a) $15 = \underline{10} + \underline{5}$

$\underline{18} = \underline{10} + \underline{8}$

$\underline{20} + \underline{13} = \underline{30} + \underline{3}$

$= \underline{33}$

b) $39 = 30 + \underline{9}$

$\underline{16} = \underline{10} + 6$

$\underline{40} + 15 = \underline{50} + \underline{5}$

$= \underline{55}$

c) $24 = \underline{20} + 4$

$\underline{26} = \underline{20} + \underline{6}$

$40 + \underline{10} = \underline{50} + \underline{0}$

$= \underline{50}$

d) $37 = \underline{30} + \underline{7}$

$\underline{26} = \underline{20} + \underline{6}$

$\underline{50} + \underline{13} = \underline{60} + \underline{3}$

$= \underline{63}$

2. Add this way.

a) $\begin{array}{r} 15 \\ 18 \\ \hline \end{array}$

13

20

$\hline 33$

b) $\begin{array}{r} 18 \\ 24 \\ \hline \end{array}$

12

30

42

c) $\begin{array}{r} 21 \\ 17 \\ \hline \end{array}$

18

30

38

d) $\begin{array}{r} 29 \\ 31 \\ \hline \end{array}$

10

50

60

e) $\begin{array}{r} 43 \\ 27 \\ \hline \end{array}$

10

60

70

f) $\begin{array}{r} 52 \\ 19 \\ \hline \end{array}$

11

60

71

g) $\begin{array}{r} 28 \\ 27 \\ \hline \end{array}$

15

40

55

h) $\begin{array}{r} 34 \\ 46 \\ \hline \end{array}$

10

70

80

i) $\begin{array}{r} 52 \\ 24 \\ \hline \end{array}$

6

70

76

j) $\begin{array}{r} 38 \\ 46 \\ \hline \end{array}$

14

70

84

k) $\begin{array}{r} 53 \\ 25 \\ \hline \end{array}$

8

70

78

l) $\begin{array}{r} 89 \\ 11 \\ \hline \end{array}$

10

90

100

m) $\begin{array}{r} 37 \\ 42 \\ \hline \end{array}$

4

70

74

1. Add.

a)
$$\begin{array}{r} 36 \\ 18 \\ \hline 54 \end{array}$$
 ↑

Think Record
14 4
2, 5 5

b)
$$\begin{array}{r} 54 \\ 17 \\ \hline 71 \end{array}$$

c)
$$\begin{array}{r} 38 \\ 23 \\ \hline 61 \end{array}$$

d)
$$\begin{array}{r} 43 \\ 19 \\ \hline 62 \end{array}$$

e)
$$\begin{array}{r} 36 \\ 27 \\ \hline 63 \end{array}$$

f)
$$\begin{array}{r} 58 \\ 34 \\ \hline 92 \end{array}$$

g)
$$\begin{array}{r} 37 \\ 28 \\ \hline 65 \end{array}$$

h)
$$\begin{array}{r} 47 \\ 24 \\ \hline 71 \end{array}$$

i)
$$\begin{array}{r} 19 \\ 59 \\ \hline 78 \end{array}$$

j)
$$\begin{array}{r} 21 \\ 39 \\ \hline 60 \end{array}$$

k)
$$\begin{array}{r} 25 \\ 15 \\ \hline 40 \end{array}$$

l)
$$\begin{array}{r} 36 \\ 25 \\ \hline 61 \end{array}$$

m)
$$\begin{array}{r} 74 \\ 16 \\ \hline 90 \end{array}$$

n)
$$\begin{array}{r} 14 \\ 57 \\ \hline 71 \end{array}$$

o)
$$\begin{array}{r} 23 \\ 48 \\ \hline 71 \end{array}$$

p)
$$\begin{array}{r} 71 \\ 19 \\ \hline 90 \end{array}$$

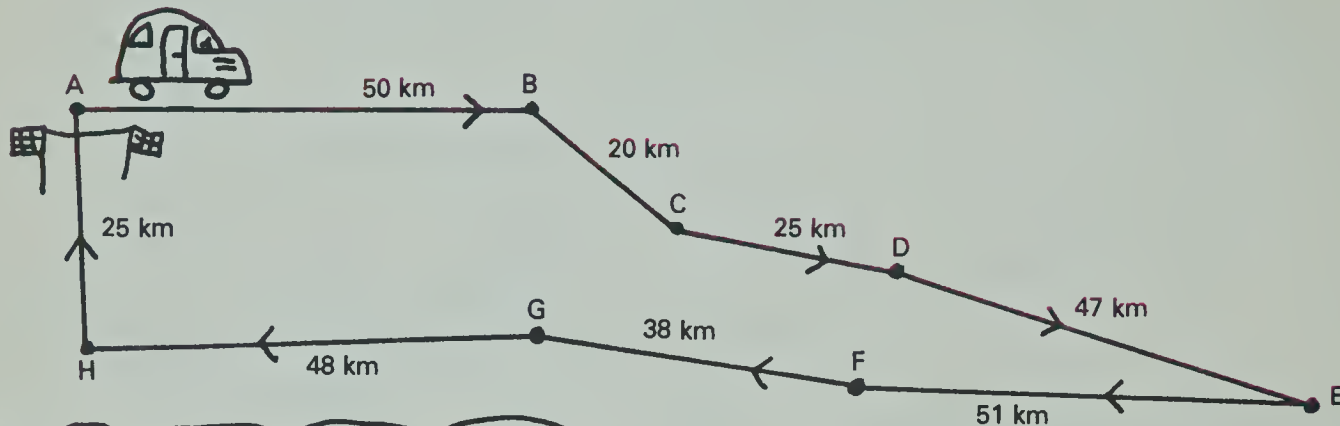
q)
$$\begin{array}{r} 56 \\ 38 \\ \hline 94 \end{array}$$

r)
$$\begin{array}{r} 43 \\ 28 \\ \hline 71 \end{array}$$

s)
$$\begin{array}{r} 66 \\ 29 \\ \hline 95 \end{array}$$

t)
$$\begin{array}{r} 24 \\ 53 \\ \hline 77 \end{array}$$

2.



- a) Bob drove from point A to point C.
How far did he drive?

A to B is 50 km
B to C is 20 km
Total is 70 km

- b) Dina drove from point C to point E.
How far did she drive?

72 km

- c) Team B drove from point F to point H.
How many kilometres did they drive?

86 km

- d) Franko drove from point E to point G.
How far did he drive?

89 km

- e) Which is further, the distance
from point B to point D, or
the distance from point G to point H?

point G to point H

- f) Name the 2 points which are 72 km
apart.

C and E

1. Subtract this way.

a) $32 = 20 + 12$

$17 = 10 + 7$

$10 + 5 = 15$

b) $53 = 40 + 13$

$16 = 10 + 6$

$30 + 7 = 37$

c) $46 = 30 + 16$

$28 = 20 + 8$

$10 + 8 = 18$

d) $48 = 30 + 18$

$29 = 20 + 9$

$10 + 9 = 19$

e) $41 = 30 + 11$

$27 = 20 + 7$

$10 + 4 = 14$

f) $63 = 50 + 13$

$57 = 50 + 7$

$0 + 6 = 6$

g) $54 = 40 + 14$

$19 = 10 + 9$

$30 + 5 = 35$

h) $37 = 20 + 17$

$28 = 20 + 8$

$0 + 9 = 9$

2. Subtract this way.

a) $\begin{array}{r} 32 \\ 17 \\ \hline 15 \end{array}$

Think Record
12, 5 5
2, 1 1

b) $\begin{array}{r} 27 \\ 18 \\ \hline 9 \end{array}$

c) $\begin{array}{r} 36 \\ 17 \\ \hline 19 \end{array}$

d) $\begin{array}{r} 42 \\ 23 \\ \hline 19 \end{array}$

e) $\begin{array}{r} 73 \\ 37 \\ \hline 36 \end{array}$

f) $\begin{array}{r} 52 \\ 46 \\ \hline 6 \end{array}$

g) $\begin{array}{r} 33 \\ 19 \\ \hline 14 \end{array}$

h) $\begin{array}{r} 56 \\ 29 \\ \hline 27 \end{array}$

i) $\begin{array}{r} 74 \\ 58 \\ \hline 16 \end{array}$

j) $\begin{array}{r} 30 \\ 19 \\ \hline 11 \end{array}$

k) $\begin{array}{r} 26 \\ 18 \\ \hline 8 \end{array}$

l) $\begin{array}{r} 50 \\ 37 \\ \hline 13 \end{array}$

m) $\begin{array}{r} 68 \\ 49 \\ \hline 19 \end{array}$

n) $\begin{array}{r} 82 \\ 75 \\ \hline 7 \end{array}$

o) $\begin{array}{r} 41 \\ 23 \\ \hline 18 \end{array}$

p) $\begin{array}{r} 64 \\ 28 \\ \hline 36 \end{array}$

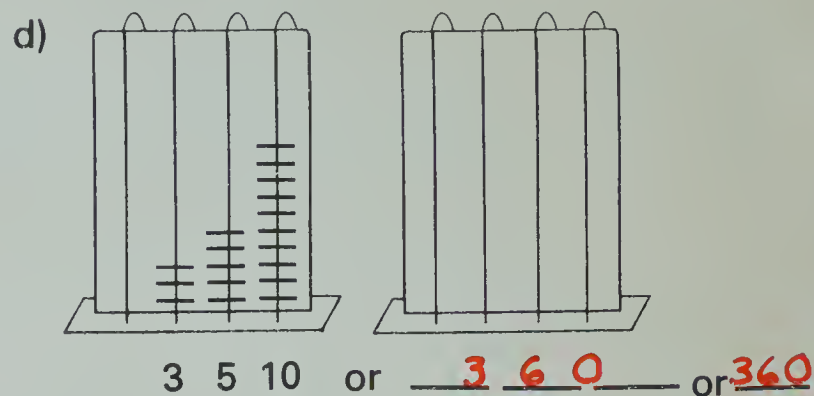
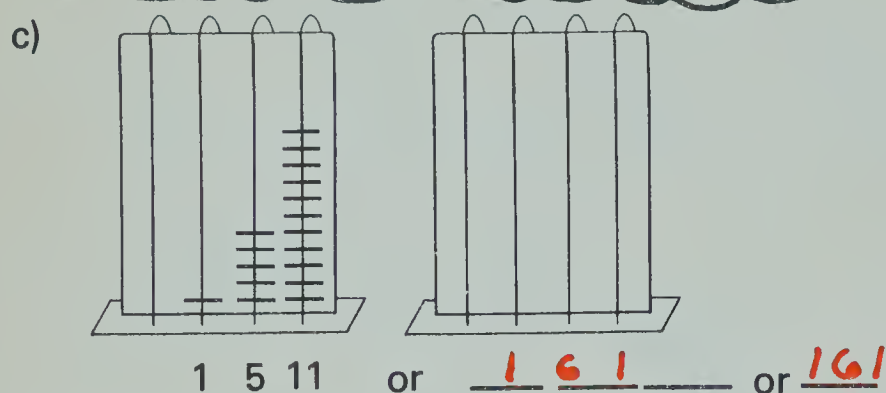
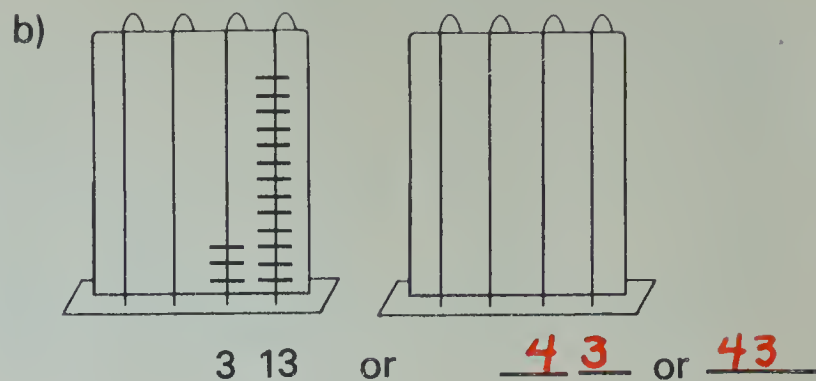
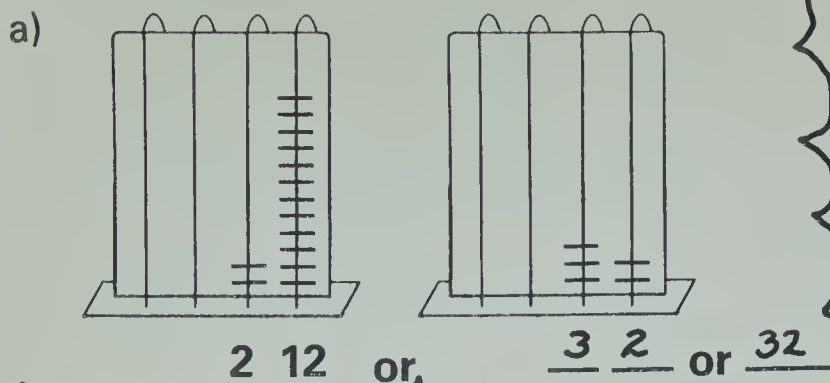
q) $\begin{array}{r} 38 \\ 19 \\ \hline 19 \end{array}$

r) $\begin{array}{r} 40 \\ 28 \\ \hline 12 \end{array}$

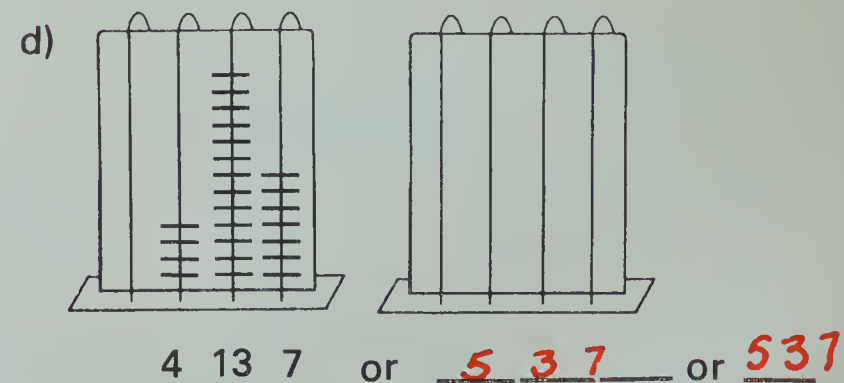
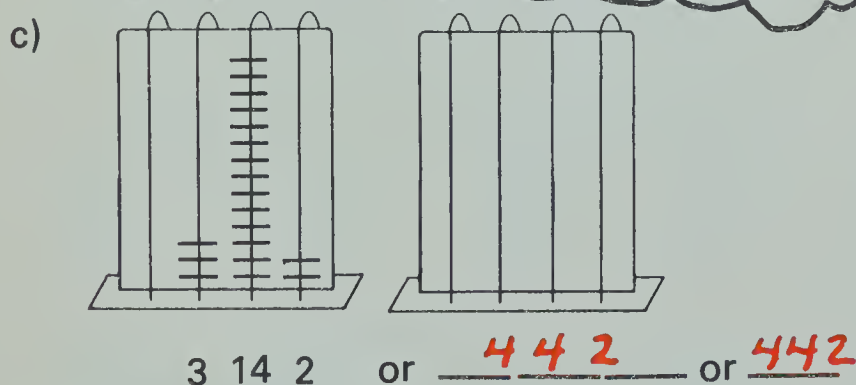
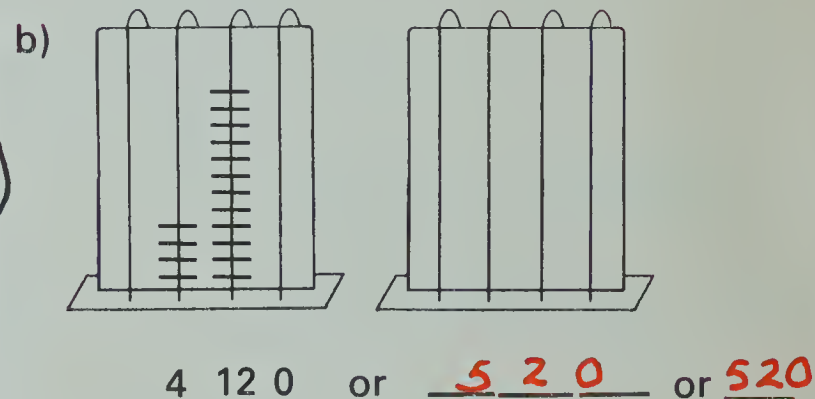
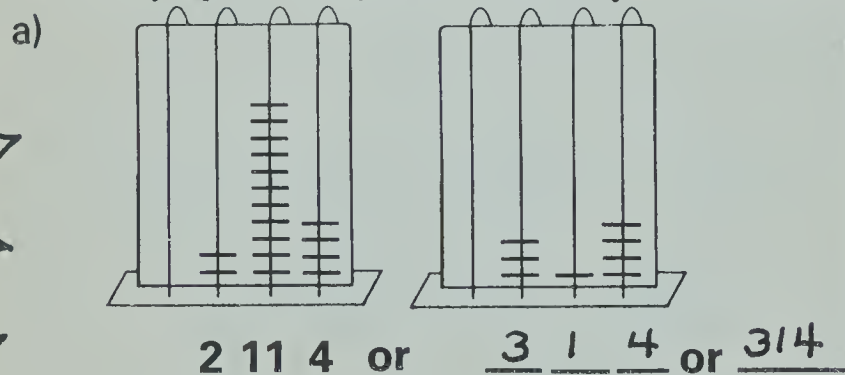
s) $\begin{array}{r} 73 \\ 58 \\ \hline 15 \end{array}$

t) $\begin{array}{r} 66 \\ 39 \\ \hline 27 \end{array}$

1. Exchange 10 ones for 1 ten.



2. Exchange 10 tens for 1 hundred.



3. Regroup.

a) $200 + 80 + 16 = 200 + 90 + \underline{6} = \underline{296}$

b) $100 + 120 + 9 = 200 + \underline{20} + \underline{9} = \underline{229}$

c) $300 + 160 + 24 = 300 + \underline{180} + 4 = 400 + \underline{80} + 4 = \underline{484}$

d) $100 + 110 + 42 = 100 + \underline{150} + 2 = \underline{200} + 50 + 2 = \underline{252}$

1. Complete the addition.

a) $194 = \underline{100} + \underline{90} + \underline{4}$

$\underline{237} = \underline{200} + \underline{30} + \underline{7}$

$\underline{300} + \underline{120} + \underline{11}$

$= \underline{300} + \underline{130} + \underline{1}$

$= \underline{400} + \underline{30} + \underline{1}$

$= \underline{431}$

b) $285 = 200 + \underline{80} + 5$

$\underline{329} = \underline{300} + \underline{20} + \underline{9}$

$\underline{500} + 100 + 14$

$= 500 + \underline{110} + \underline{4}$

$= \underline{600} + \underline{10} + 4$

$= \underline{614}$

c) $157 = \underline{100} + 50 + \underline{7}$

$\underline{169} = \underline{100} + \underline{60} + 9$

$200 + \underline{110} + 16$

$= \underline{200} + \underline{120} + 6$

$= \underline{300} + \underline{20} + \underline{6}$

$= \underline{326}$

d) $248 = \underline{200} + \underline{40} + \underline{8}$

$\underline{387} = \underline{300} + \underline{80} + \underline{7}$

$\underline{500} + \underline{120} + \underline{15}$

$= \underline{500} + \underline{130} + \underline{5}$

$= \underline{600} + \underline{30} + \underline{5}$

$= \underline{635}$

2. Add.

a) $\begin{array}{r} 194 \\ 237 \\ \hline 431 \end{array}$

Think Record

11	1
4, 13	3
3, 4	4

b) $\begin{array}{r} 186 \\ 195 \\ \hline \end{array}$

$\underline{381}$

c) $\begin{array}{r} 179 \\ 183 \\ \hline \end{array}$

$\underline{362}$

d) $\begin{array}{r} 256 \\ 185 \\ \hline \end{array}$

$\underline{441}$

e) $\begin{array}{r} 547 \\ 254 \\ \hline \end{array}$

$\underline{801}$

f) $\begin{array}{r} 384 \\ 268 \\ \hline \end{array}$

$\underline{652}$

g) $\begin{array}{r} 196 \\ 429 \\ \hline \end{array}$

$\underline{625}$

h) $\begin{array}{r} 509 \\ 187 \\ \hline \end{array}$

$\underline{696}$

i) $\begin{array}{r} 267 \\ 287 \\ \hline \end{array}$

$\underline{554}$

j) $\begin{array}{r} 619 \\ 297 \\ \hline \end{array}$

$\underline{916}$

k) $\begin{array}{r} 457 \\ 296 \\ \hline \end{array}$

$\underline{753}$

3. Attendance: Monday 387
Tuesday 369
What is the total attendance?

$\underline{756}$

4. Collected: 256 paperback books
187 hard cover books
How many books were collected?

$\underline{443 \text{ books}}$

1. Complete the subtraction.

$$a) \quad 334 = \underline{300} + \underline{30} + \underline{4} = \underline{300} + \underline{20} + \underline{14} = \underline{200} + \underline{120} + \underline{14}$$

$$\underline{156} = \underline{100} + \underline{50} + \underline{6} = \underline{100} + \underline{50} + \underline{6} = \underline{100} + \underline{50} + \underline{6}$$

$$\underline{100} + \underline{70} + \underline{8} = \underline{178}$$

$$b) \quad 423 = 400 + 20 + \underline{3} = 400 + 10 + \underline{13} = 300 + \underline{110} + \underline{13}$$

$$\underline{295} = \underline{200} + 90 + \underline{5} = \underline{200} + \underline{90} + \underline{5} = \underline{200} + \underline{90} + \underline{5}$$

$$\underline{100} + \underline{20} + \underline{8} = \underline{128}$$

$$c) \quad 334 = 300 + 30 + \underline{4} = 300 + 20 + \underline{14} = 200 + \underline{120} + \underline{14}$$

$$\underline{147} = \underline{100} + \underline{40} + \underline{7} = \underline{100} + \underline{40} + \underline{7} = \underline{100} + \underline{40} + \underline{7}$$

$$\underline{100} + \underline{80} + \underline{7} = \underline{187}$$

$$d) \quad 245 = \underline{200} + \underline{40} + \underline{5} = \underline{200} + \underline{30} + \underline{15} = \underline{100} + \underline{130} + \underline{15}$$

$$\underline{188} = \underline{100} + \underline{80} + \underline{8} = \underline{100} + \underline{80} + \underline{8} = \underline{100} + \underline{80} + \underline{8}$$

$$\underline{0} + \underline{50} + \underline{7} = \underline{57}$$

2. Now subtract this way.

$$a) \quad \begin{array}{r} 334 \\ -156 \\ \hline 178 \end{array}$$

Think	Record
14, 8	8
12, 7	7
2, 1	1

$$b) \quad \begin{array}{r} 461 \\ -148 \\ \hline \end{array}$$

$$\underline{313}$$

$$c) \quad \begin{array}{r} 738 \\ -356 \\ \hline \end{array}$$

$$\underline{382}$$

$$d) \quad \begin{array}{r} 427 \\ -183 \\ \hline \end{array}$$

$$\underline{244}$$

$$e) \quad \begin{array}{r} 813 \\ -559 \\ \hline \end{array}$$

$$\underline{254}$$

$$f) \quad \begin{array}{r} 627 \\ -158 \\ \hline \end{array}$$

$$\underline{469}$$

$$g) \quad \begin{array}{r} 437 \\ -189 \\ \hline \end{array}$$

$$\underline{248}$$

$$h) \quad \begin{array}{r} 351 \\ -163 \\ \hline \end{array}$$

$$\underline{188}$$

$$i) \quad \begin{array}{r} 422 \\ -247 \\ \hline \end{array}$$

$$\underline{175}$$

$$j) \quad \begin{array}{r} 752 \\ -384 \\ \hline \end{array}$$

$$\underline{368}$$

$$k) \quad \begin{array}{r} 927 \\ -438 \\ \hline \end{array}$$

$$\underline{489}$$

$$l) \quad \begin{array}{r} 671 \\ -496 \\ \hline \end{array}$$

$$\underline{175}$$

$$m) \quad \begin{array}{r} 583 \\ -299 \\ \hline \end{array}$$

$$\underline{284}$$

3. Points scored yesterday: 731
 Points scored today: 658
 How many more points yesterday?

73 more points

4. I collected 347 coins on Monday.
 I collected 209 coins on Tuesday.
 How many more coins on Monday?

138 more coins

1. Last week Gina wrote a story of 64 words.
This week she wrote a story of 81 words.
How many more words in this week's story?

this week 81
last week 64
difference 17

17 more words in this week's story.

2. Pasquale's story was 72 words long last week.
This week his story was 60 words long.
How much shorter was it this week?

12 words shorter

3. Fatima's story was 80 words long this week.
Last week it was 68 words long.
How much longer was it this week?

12 words longer

4. A newspaper has 67 words in
1 article and 143 words in another.
How many words in the 2 articles?

210 words

5. A book has 193 words in chapter 1
and 317 words in chapter 2.
How many words in the 2 chapters?

510 words

6. There is room for 643 words on
the front page of a school newspaper.
The story is only 475 words long.
How many more words can be written?

168 words

1. Add.

a) $\begin{array}{r} 26 \\ 37 \\ \hline 63 \end{array}$ ↑

Think Record
7, 13 3
4, 6 6

b) $\begin{array}{r} 53 \\ 38 \\ \hline 91 \end{array}$

c) $\begin{array}{r} 39 \\ 28 \\ \hline 67 \end{array}$

d) $\begin{array}{r} 46 \\ 37 \\ \hline 83 \end{array}$

e) $\begin{array}{r} 62 \\ 18 \\ \hline 80 \end{array}$

f) $\begin{array}{r} 36 \\ 29 \\ \hline 65 \end{array}$

g) $\begin{array}{r} 23 \\ 27 \\ \hline 50 \end{array}$

h) $\begin{array}{r} 53 \\ 18 \\ \hline 71 \end{array}$

i) $\begin{array}{r} 24 \\ 58 \\ \hline 82 \end{array}$

j) $\begin{array}{r} 39 \\ 39 \\ \hline 78 \end{array}$

k) $\begin{array}{r} 71 \\ 19 \\ \hline 90 \end{array}$

2. Add.

a) $\begin{array}{r} 143 \\ 256 \\ \hline 399 \end{array}$

b) $\begin{array}{r} 341 \\ 287 \\ \hline 628 \end{array}$

c) $\begin{array}{r} 429 \\ 196 \\ \hline 625 \end{array}$

d) $\begin{array}{r} 381 \\ 259 \\ \hline 640 \end{array}$

e) $\begin{array}{r} 439 \\ 286 \\ \hline 725 \end{array}$

f) $\begin{array}{r} 349 \\ 356 \\ \hline 705 \end{array}$

g) $\begin{array}{r} 189 \\ 467 \\ \hline 656 \end{array}$

h) $\begin{array}{r} 528 \\ 176 \\ \hline 704 \end{array}$

i) $\begin{array}{r} 382 \\ 279 \\ \hline 661 \end{array}$

j) $\begin{array}{r} 254 \\ 468 \\ \hline 722 \end{array}$

3. Subtract.

a) $\begin{array}{r} 56 \\ 37 \\ \hline 19 \end{array}$ ↓

Think Record
16, 9 9
4, 1 1

b) $\begin{array}{r} 34 \\ 17 \\ \hline 17 \end{array}$

c) $\begin{array}{r} 43 \\ 19 \\ \hline 24 \end{array}$

d) $\begin{array}{r} 56 \\ 37 \\ \hline 19 \end{array}$

e) $\begin{array}{r} 25 \\ 16 \\ \hline 9 \end{array}$

f) $\begin{array}{r} 63 \\ 48 \\ \hline 15 \end{array}$

g) $\begin{array}{r} 44 \\ 27 \\ \hline 17 \end{array}$

h) $\begin{array}{r} 75 \\ 58 \\ \hline 17 \end{array}$

i) $\begin{array}{r} 45 \\ 39 \\ \hline 6 \end{array}$

j) $\begin{array}{r} 63 \\ 58 \\ \hline 5 \end{array}$

k) $\begin{array}{r} 47 \\ 39 \\ \hline 8 \end{array}$

4. Subtract.

a) $\begin{array}{r} 361 \\ 147 \\ \hline 214 \end{array}$

b) $\begin{array}{r} 452 \\ 117 \\ \hline 335 \end{array}$

c) $\begin{array}{r} 374 \\ 158 \\ \hline 216 \end{array}$

d) $\begin{array}{r} 538 \\ 276 \\ \hline 262 \end{array}$

e) $\begin{array}{r} 349 \\ 163 \\ \hline 186 \end{array}$

f) $\begin{array}{r} 434 \\ 158 \\ \hline 276 \end{array}$

g) $\begin{array}{r} 751 \\ 375 \\ \hline 376 \end{array}$

h) $\begin{array}{r} 527 \\ 249 \\ \hline 278 \end{array}$

i) $\begin{array}{r} 825 \\ 487 \\ \hline 338 \end{array}$

j) $\begin{array}{r} 633 \\ 277 \\ \hline 356 \end{array}$

The pupils in Room 306 of Montrose School held a jellybean contest.
They placed 760 jellybeans in a jar.
Pupils tried to guess the correct number of jellybeans to win the jar.



1. Angela estimated that the jar contained 430 jellybeans.
How many more jellybeans were there?

$$\begin{array}{r} 760 \\ 430 \\ \hline 330 \end{array}$$

There were 330
more jellybeans

2. Joe estimated that the jar contained 562 jellybeans.
How many more were there?

198 more

3. Jose estimated 920 jellybeans.
How many more than the correct number
did he estimate?

160 more

4. Rosetta's estimate was 50 jellybeans
more than the correct number.
How many did she estimate?

810 beans

5. 36 pupils made guesses on Monday and
24 pupils made guesses on Tuesday.
How many pupils made guesses in all?

60 pupils

6. The winner of the jellybeans
discovered that 112 beans were red.
How many beans were of the other
colours?

648 beans

1. Complete the table. Estimate, then measure.

Object	Estimated length (nearest metre)	Measured length (nearest metre)
a) width of classroom		
b) length of classroom	answers	will vary
c) length of chalkboard		
d) length of a table		
e) length of a teacher's desk		
f) your height		
g)		
h)		
i)		
j)		

2. a) Name 4 objects that are each less than 1 m long.

answers will vary

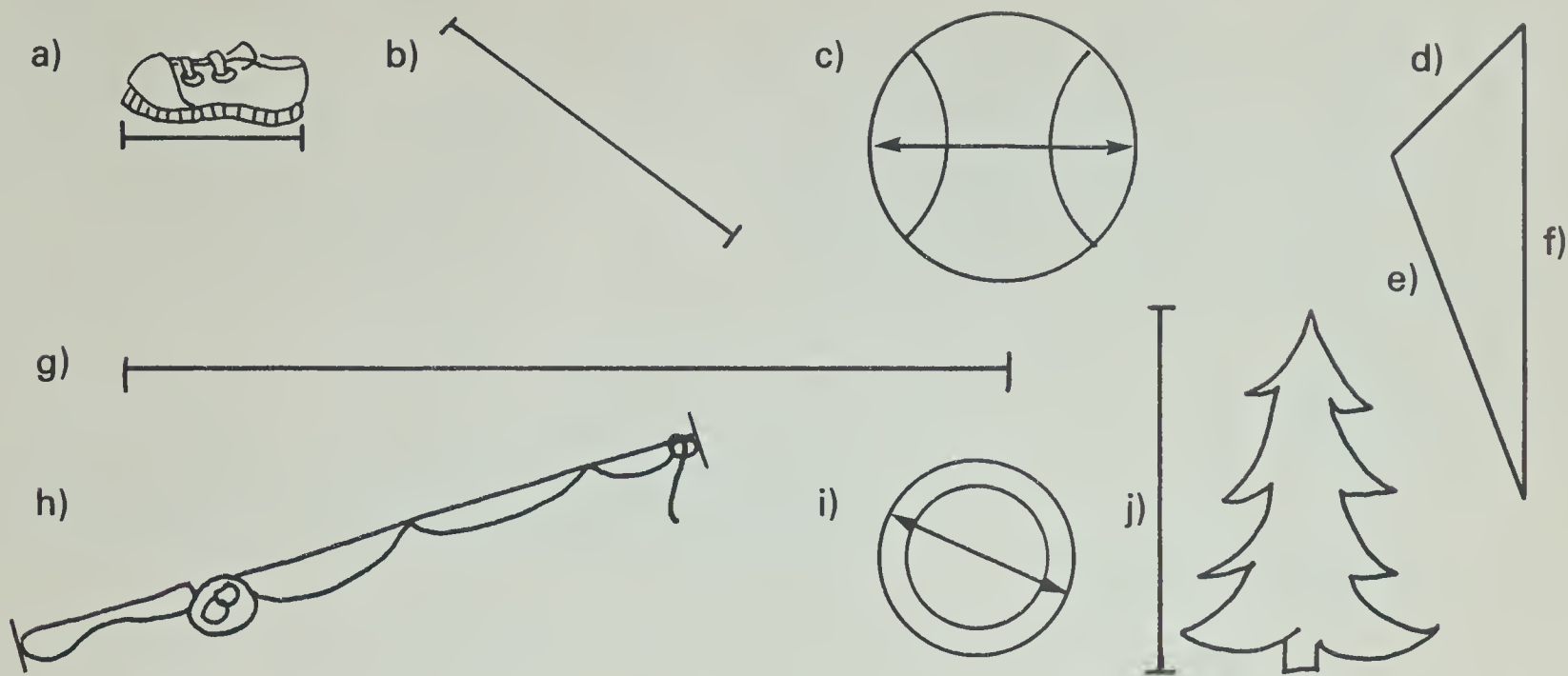
b) Name 2 objects that are each about 1 m long.

answers will vary

c) Name 2 objects that are each more than 1 m long.

answers will vary

1. Complete the tables. Estimate, then measure.



Object	Estimated Length (centimetres)	Measured length (centimetres)
a)		2 cm
b)	estimates will vary	4 cm
c)		3 cm
d)		2 cm
e)		4 cm

Object	Estimated length (centimetres)	Measured length (centimetres)
f)		5 cm
g)	estimates will vary	10 cm
h)	estimates will vary	8 cm
i)		2 cm
j)		4 cm

2. Name 4 objects in your desk.
Estimate, then measure each to the nearest centimetre.

Object	Estimated Length (centimetres)	Measured length (centimetres)
answers will vary		

Object	Estimated length (centimetres)	Measured length (centimetres)
answers will vary		

1. The side of each small square is 1 cm. Find the perimeter of each shape.

a)



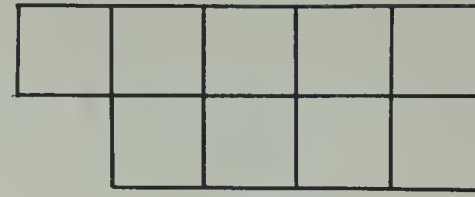
$$\text{Perimeter} = \underline{10} \text{ cm}$$

b)



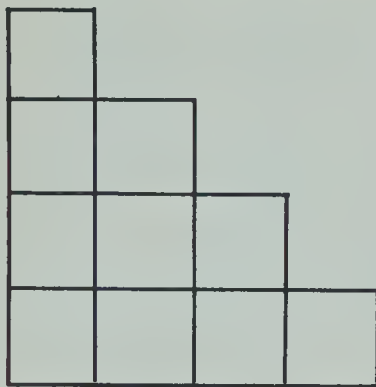
$$\text{Perimeter} = \underline{14} \text{ cm}$$

c)



$$\text{Perimeter} = \underline{14} \text{ cm}$$

d)



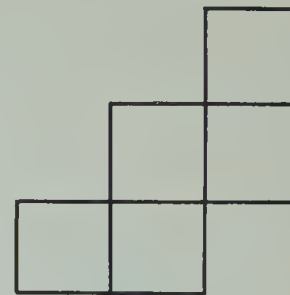
$$\text{Perimeter} = \underline{16} \text{ cm}$$

e)



$$\text{Perimeter} = \underline{16} \text{ cm}$$

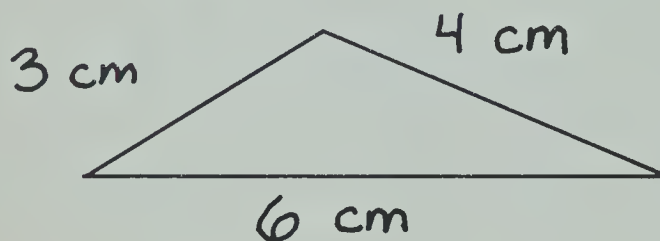
f)



$$\text{Perimeter} = \underline{12} \text{ cm}$$

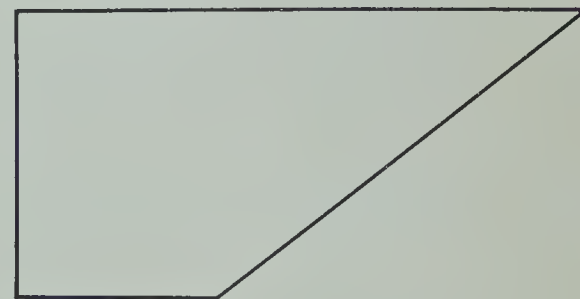
2. Measure the length of each side in centimetres. Find the perimeter of

a) the triangle.



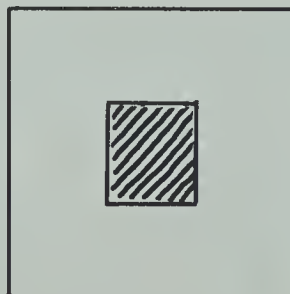
$$\begin{aligned} \text{Perimeter} &= \underline{3 \text{ cm} + 4 \text{ cm} + 6 \text{ cm}} \\ &= \underline{13 \text{ cm}} \end{aligned}$$

b) the quadrilateral.



$$\begin{aligned} \text{Perimeter} &= \underline{3 \text{ cm} + 2 \text{ cm} + 5 \text{ cm} + 6 \text{ cm}} \\ &= \underline{16 \text{ cm}} \end{aligned}$$

c) the large square.

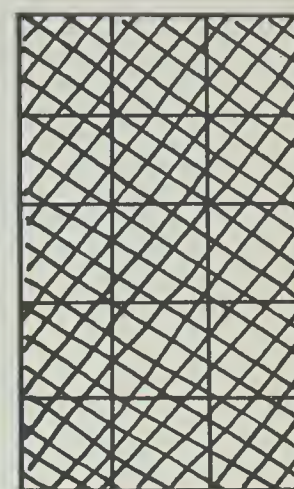
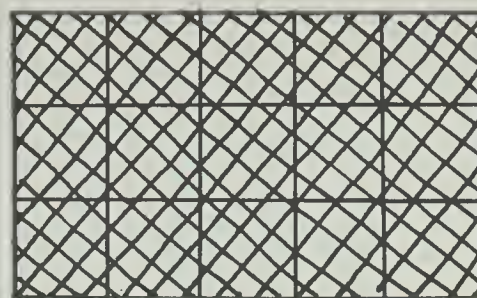
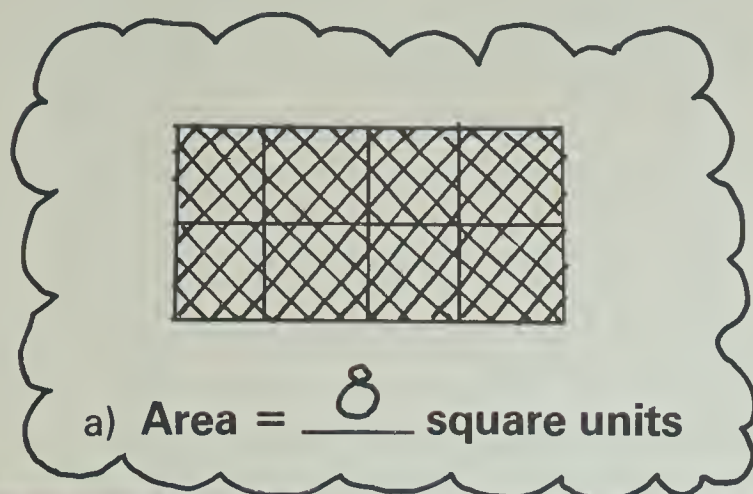


$$\begin{aligned} \text{Perimeter} &= \underline{3 \text{ cm} + 3 \text{ cm} + 3 \text{ cm} + 3 \text{ cm}} \\ &= \underline{12 \text{ cm}} \end{aligned}$$

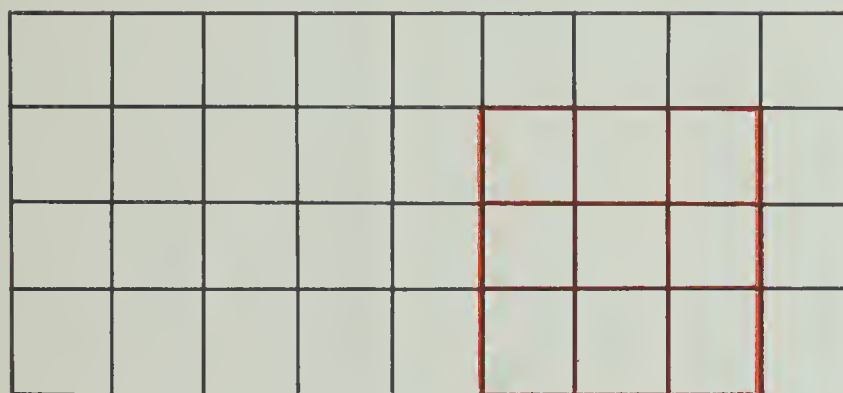
d) the small square.

$$\begin{aligned} \text{Perimeter} &= \underline{1 \text{ cm} + 1 \text{ cm} + 1 \text{ cm} + 1 \text{ cm}} \\ &= \underline{4 \text{ cm}} \end{aligned}$$

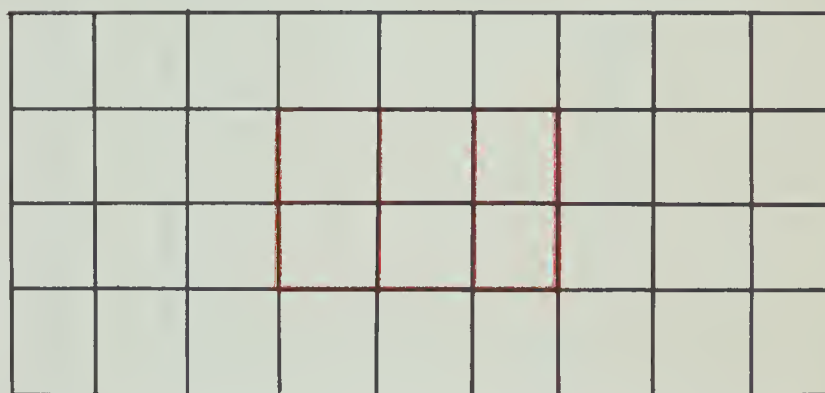
1. Count the squares to find the area.



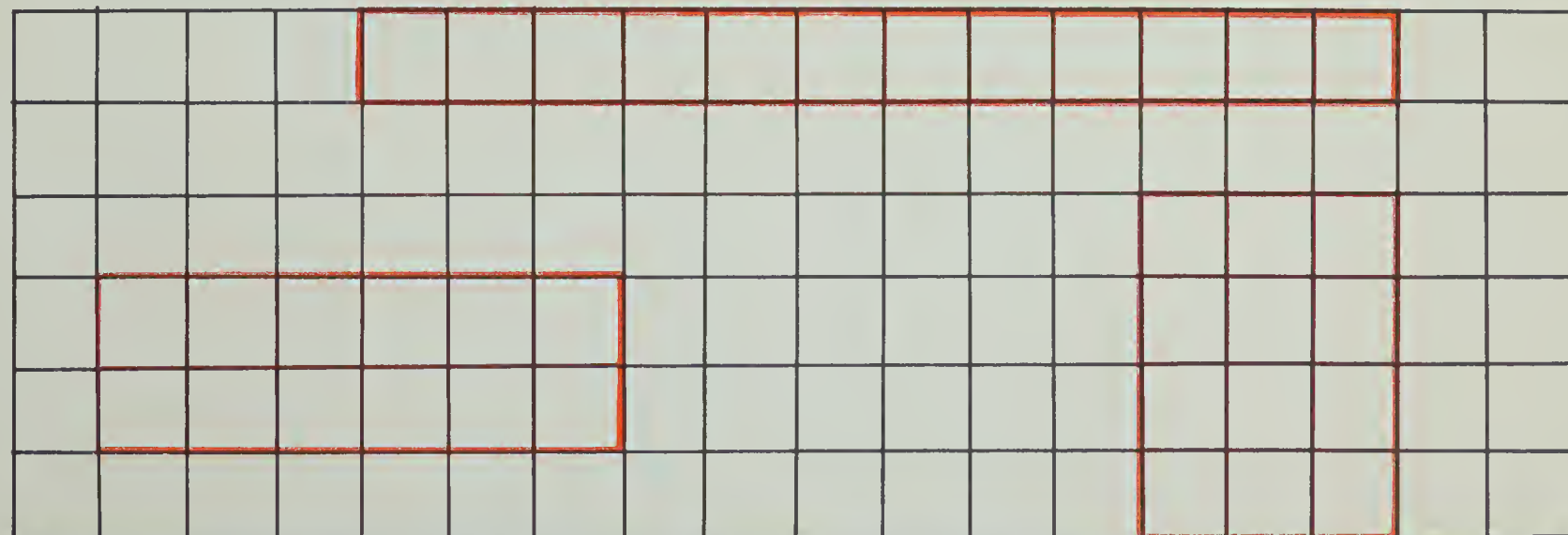
2. Draw a square that has an area of 9 square units.



3. Draw a rectangle that has an area of 6 square units.



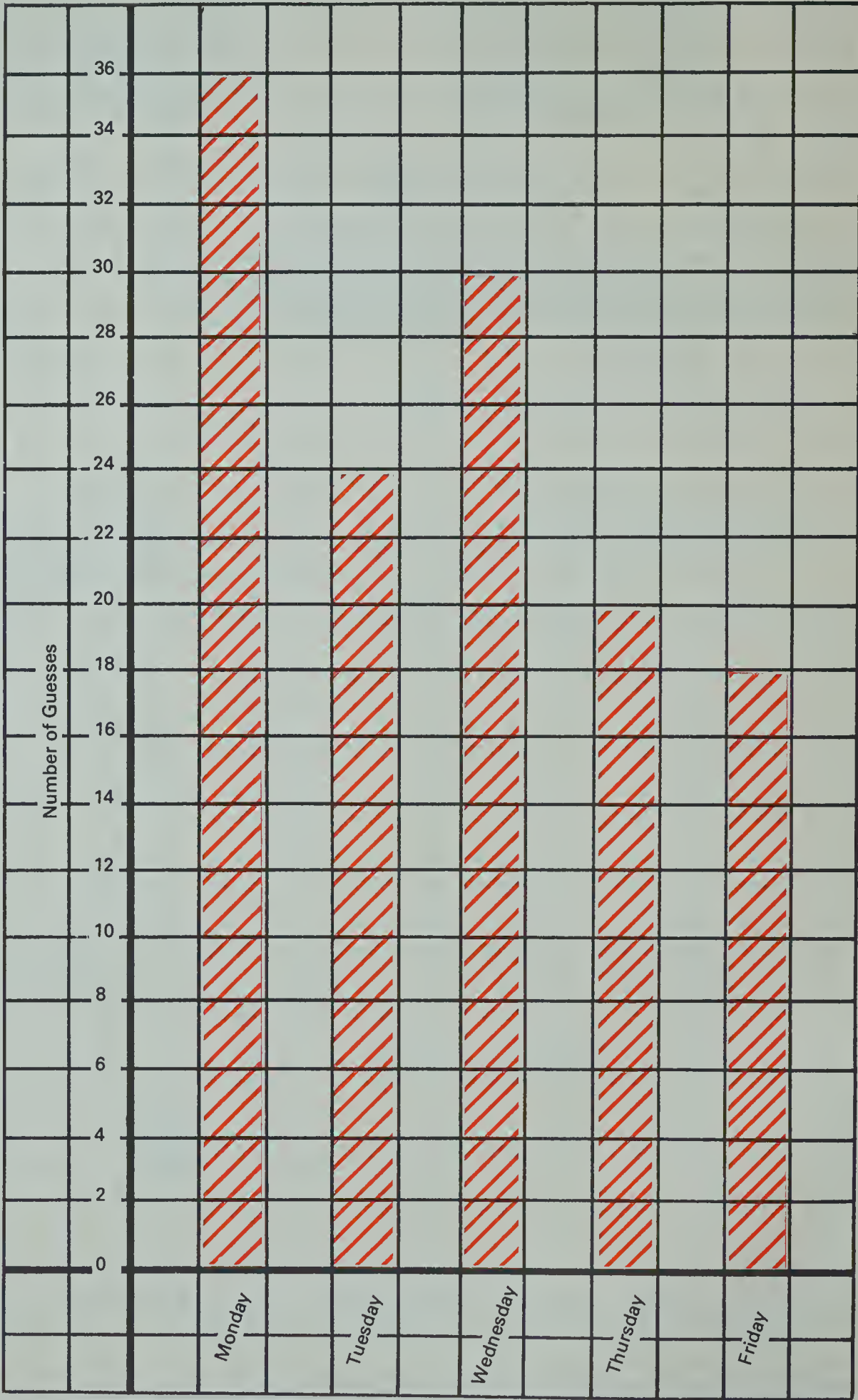
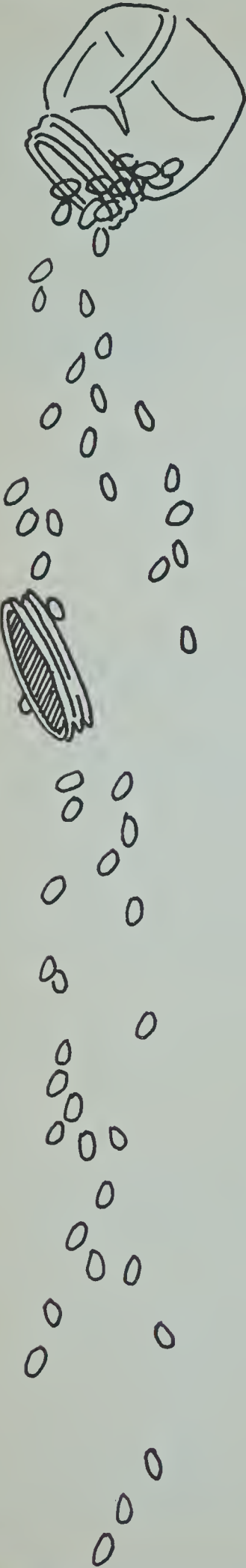
4. Draw 3 different rectangles each with an area of 12 square units.



Complete the graph for this data.

Number of Guesses in the Jellybean Contest

Monday	Tuesday	Wednesday	Thursday	Friday
36	24	30	20	18



1. Temperature at 08:00 was 18°C.
Temperature at 14:00 was 27°C.
By how many degrees Celsius did the temperature increase?

$$\begin{array}{r} 27 \\ -18 \\ \hline 9 \end{array}$$

The temperature increased by 9°C.

2. Temperature at 08:00 was 8°C.
Temperature at 12:00 was 1°C.
How many degrees Celsius did the temperature drop?

$$\begin{array}{r} 8 \\ -1 \\ \hline 7 \end{array}$$

The temperature dropped 7°C.

3. 20 L of paint are required to paint the walls of the classroom.
How many litres of paint will be required to paint the walls of 2 classrooms?

$$\begin{array}{r} 20 \\ \times 2 \\ \hline 40 \end{array}$$

40 L will be required.

4. Jerry drank 150 mL of orange juice on Monday and 200 mL on Tuesday.
How much orange juice did he drink in all?

$$\begin{array}{r} 150 \\ +200 \\ \hline 350 \end{array}$$

He drank 350 mL of orange juice.

5. Julia has a mass of 23 kg.
Her mother has a mass of 61 kg.
How much heavier is her mother?

$$\begin{array}{r} 61 \\ -23 \\ \hline 38 \end{array}$$

Her mother is 38 kg heavier.

6. A bowl contains 500 g of flour.
250 g of flour are removed.
How much remains?

$$\begin{array}{r} 500 \\ -250 \\ \hline 250 \end{array}$$

250 g of flour remains.

1. Draw pictures to illustrate multiplication.

Write the multiplication sentence for each picture.

a) books: 2 groups of 4



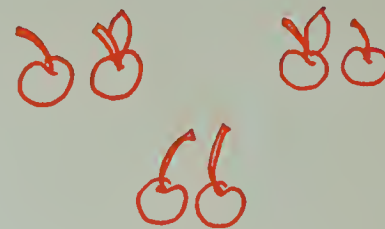
$$2 \times 4 = 8$$

b) trees: 2 groups of 5



$$2 \times 5 = 10$$

c) cherries: 3 groups of 2



$$3 \times 2 = 6$$

2. Complete the multiplication sentence.

Draw an array for each.

a) $5 \times 3 = \underline{15}$



b) $6 \times 4 = \underline{24}$



c) $3 \times 7 = \underline{21}$



d) $4 \times 6 = \underline{24}$



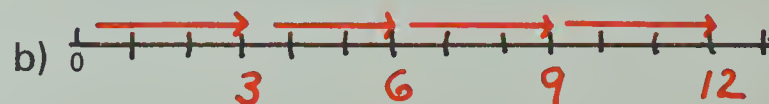
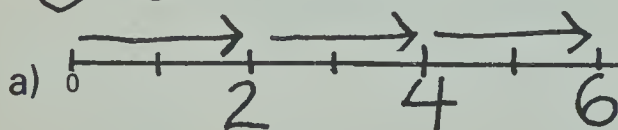
e) $1 \times 8 = \underline{8}$



f) $5 \times 6 = \underline{30}$



3. Draw arrows to show each multiplication sentence.



1. Complete the multiplication chart.

X	1	2	3	4	5	6	7
1	1	2	3	4	5	6	7
2	2	4	6	8	10	12	14
3	3	6	9	12	15	18	21
4	4	8	12	16	20	24	28
5	5	10	15	20	25	30	35
6	6	12	18	24	30	36	42
7	7	14	21	28	35	42	49

2. Look at the products of the shaded area and the products you wrote.

What can you tell about them?

The answers on the
two sides of the
centre diagonals
are the same.

3. Find the pattern in the chart. Give the rule for each pattern.

a)

2	2	4
	6	
	8	
	10	
	12	
	14	

Add 2

b)

3	3	6	9
		12	
		15	
		21	

Add 3

c)

6	6	12	18	24	30	36
						42

Add 6

4. Give the pattern in the chart for the rule Add 5.

5	5	10	15	20	25
					30
					35

5. Complete.

a) $3 \times 3 = \underline{15}$

b) $4 \times 7 = \underline{28}$

c) $2 \times 5 = \underline{10}$

d) $5 \times 5 = \underline{25}$

e) $3 \times 7 = \underline{21}$

f) $6 \times 3 = \underline{18}$

g) $6 \times 7 = \underline{42}$

h) $5 \times 3 = \underline{15}$

i) $3 \times 5 = \underline{15}$

j) $4 \times 4 = \underline{16}$

k) $7 \times 5 = \underline{35}$

l) $5 \times 7 = \underline{35}$

1. Complete.

Number pair	Multiplication sentence
(3, 5)	$3 \times 5 = 15$
(3, 7)	$3 \times 7 = 21$
(2, 6)	$2 \times 6 = 12$
(4, 7)	$4 \times 7 = 28$
(2, 7)	$2 \times 7 = 14$
(3, 3)	$3 \times 3 = 9$
(6, 5)	$6 \times 5 = 30$
(7, 6)	$7 \times 6 = 42$
(5, 5)	$5 \times 5 = 25$
(4, 4)	$4 \times 4 = 16$

Number pair	Multiplication sentence
(7, 2)	$7 \times 2 = 14$
(6, 6)	$6 \times 6 = 36$
(1, 5)	$1 \times 5 = 5$
(4, 3)	$4 \times 3 = 12$
(5, 6)	$5 \times 6 = 30$
(7, 7)	$7 \times 7 = 49$
(6, 3)	$6 \times 3 = 18$
(6, 7)	$6 \times 7 = 42$
(1, 4)	$1 \times 4 = 4$
(7, 5)	$7 \times 5 = 35$

2. Solve.

a) $k = 7 \times 3$

$k = \underline{21}$

b) $r = 3 \times 6$

$r = \underline{18}$

c) $p = 5 \times 4$

$p = \underline{20}$

d) $f = 4 \times 7$

$f = \underline{28}$

e) $s = 2 \times 4$

$s = \underline{8}$

f) $c = 6 \times 5$

$c = \underline{30}$

g) $d = 3 \times 5$

$d = \underline{15}$

h) $m = 4 \times 2$

$m = \underline{8}$

i) $e = 4 \times 5$

$e = \underline{20}$

j) $a = 1 \times 5$

$a = \underline{5}$

k) $p = 4 \times 4$

$p = \underline{16}$

l) $h = 7 \times 5$

$h = \underline{35}$

1. Write 2 division sentences for each array.

a)

x x x x x x
x x x x x x

$$12 \div 2 = 6$$

$$12 \div 6 = 2$$

b)

x x x x x x
x x x x x x
x x x x x x

$$18 \div 3 = 6$$

$$18 \div 6 = 3$$

c)

x x x x x x x
x x x x x x x
x x x x x x x
x x x x x x x

$$28 \div 4 = 7$$

$$28 \div 7 = 4$$

d)

x x x
x x x
x x x
x x x
x x x

$$15 \div 5 = 3$$

$$15 \div 3 = 5$$

e)

x x x x x
x x x x x
x x x x x
x x x x x
x x x x x

$$25 \div 5 = 5$$

f)

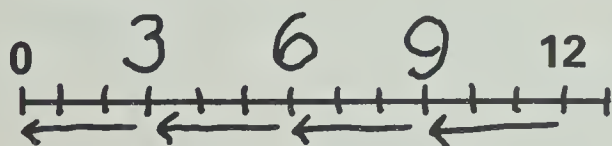
x x x x x x x
x x x x x x x
x x x x x x x
x x x x x x x
x x x x x x x

$$35 \div 5 = 7$$

$$35 \div 7 = 5$$

2. Use the number line and write a division sentence to show how many

a) threes in 12



$$12 \div 3 = 4$$

b) fives in 15



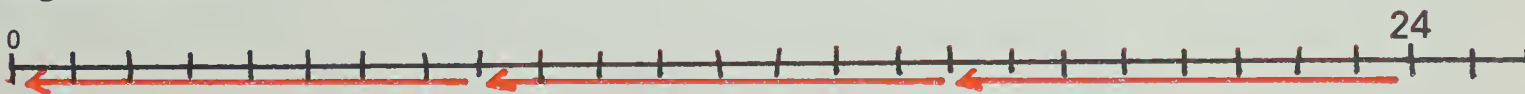
$$15 \div 5 = 3$$

c) sixes in 24



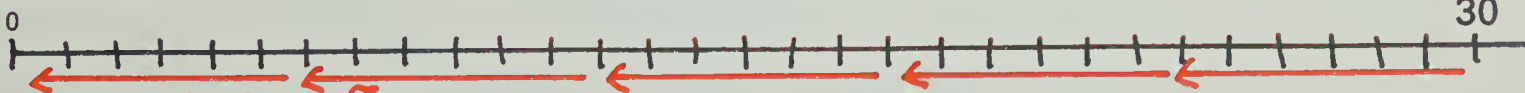
$$24 \div 6 = 4$$

d) eights in 24



$$24 \div 8 = 3$$

e) sixes in 30



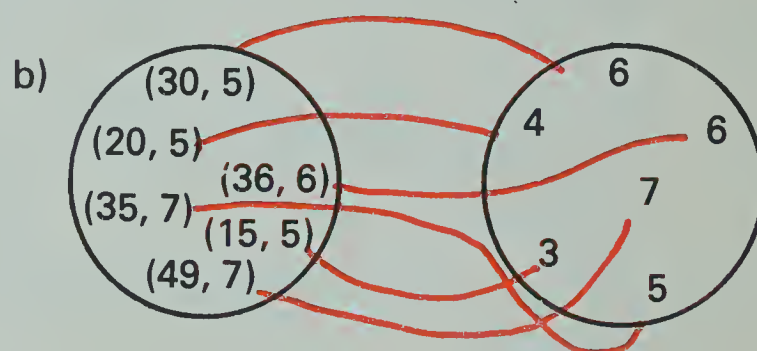
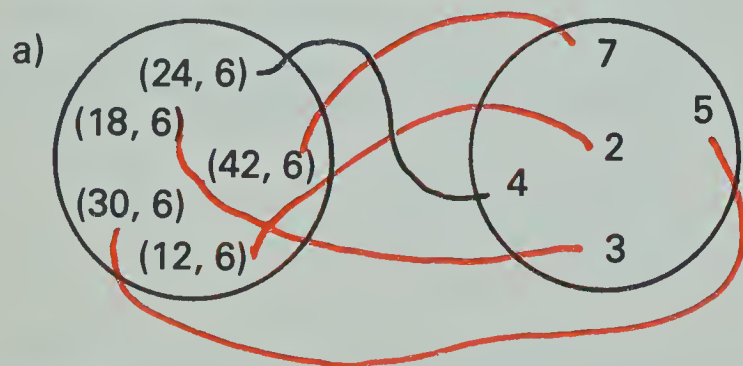
$$30 \div 6 = 5$$

1. Complete.

Number pair	Division sentence
(36, 9)	$36 \div 6 = 6$
(20, 5)	$20 \div 5 = 4$
(16, 4)	$16 \div 4 = 4$
(6, 3)	$6 \div 3 = 2$
(10, 5)	$10 \div 5 = 2$
(18, 2)	$18 \div 2 = 9$
(18, 3)	$18 \div 3 = 6$
(6, 1)	$6 \div 1 = 6$
(30, 5)	$30 \div 5 = 6$
(12, 4)	$12 \div 4 = 3$
(28, 7)	$28 \div 7 = 4$

Number pair	Division sentence
(12, 3)	$12 \div 3 = 4$
(35, 7)	$35 \div 7 = 5$
(21, 3)	$21 \div 3 = 7$
(42, 6)	$42 \div 6 = 7$
(30, 6)	$30 \div 6 = 5$
(25, 5)	$25 \div 5 = 5$
(9, 3)	$9 \div 3 = 3$
(35, 5)	$35 \div 5 = 7$
(7, 1)	$7 \div 1 = 7$
(8, 4)	$8 \div 4 = 2$
(14, 7)	$14 \div 7 = 2$

2. Divide. Show by matching.



3. Divide.

a) $\begin{array}{r} 2 \\ 6 \overline{)12} \end{array}$

b) $\begin{array}{r} 4 \\ 5 \overline{)20} \end{array}$

c) $\begin{array}{r} 6 \\ 6 \overline{)36} \end{array}$

d) $\begin{array}{r} 5 \\ 3 \overline{)15} \end{array}$

e) $\begin{array}{r} 4 \\ 4 \overline{)16} \end{array}$

f) $\begin{array}{r} 3 \\ 3 \overline{)3} \end{array}$

g) $\begin{array}{r} 2 \\ 6 \overline{)12} \end{array}$

h) $\begin{array}{r} 4 \\ 7 \overline{)28} \end{array}$

i) $\begin{array}{r} 1 \\ 7 \overline{)7} \end{array}$

j) $\begin{array}{r} 3 \\ 6 \overline{)18} \end{array}$

k) $\begin{array}{r} 4 \\ 4 \overline{)4} \end{array}$

l) $\begin{array}{r} 2 \\ 5 \overline{)10} \end{array}$

m) $\begin{array}{r} 4 \\ 6 \overline{)24} \end{array}$

n) $\begin{array}{r} 5 \\ 5 \overline{)25} \end{array}$

o) $\begin{array}{r} 7 \\ 7 \overline{)49} \end{array}$

p) $\begin{array}{r} 5 \\ 6 \overline{)30} \end{array}$

q) $\begin{array}{r} 1 \\ 2 \overline{)2} \end{array}$

r) $\begin{array}{r} 2 \\ 4 \overline{)8} \end{array}$

s) $\begin{array}{r} 1 \\ 6 \overline{)6} \end{array}$

t) $\begin{array}{r} 3 \\ 7 \overline{)21} \end{array}$

1. Complete the multiplication charts.

X	2	8	3	6	10	7	4
4	8	32	12	24	40	28	16
1	2	8	3	6	10	7	4
7	14	56	21	42	70	49	28
2	4	16	6	12	20	14	8
5	10	40	15	30	50	35	20
9	18	72	27	54	90	63	36

X	5	2	4	6	10	8	3
2	10	4	8	12	20	16	6
8	40	16	32	48	80	64	24
3	15	6	12	18	30	24	9
6	30	12	24	36	60	48	18
10	50	20	40	60	100	80	30
7	35	14	28	42	70	56	21

2. Complete the multiplication sentences.

Write 2 division facts for each multiplication fact.

a) $6 \times 7 = 42$
 $42 \div 7 = 6$
 $42 \div 6 = 7$

b) $9 \times 5 = 45$
 $45 \div 5 = 9$
 $45 \div 9 = 5$

c) $7 \times 8 = 56$
 $56 \div 8 = 7$
 $56 \div 7 = 8$

d) $10 \times 6 = 60$
 $60 \div 6 = 10$
 $60 \div 10 = 6$

e) $7 \times 9 = 63$
 $63 \div 9 = 7$
 $63 \div 7 = 9$

f) $9 \times 8 = 72$
 $72 \div 9 = 8$
 $72 \div 8 = 9$

g) $6 \times 8 = 48$
 $48 \div 6 = 8$
 $48 \div 8 = 6$

h) $7 \times 10 = 70$
 $70 \div 10 = 7$
 $70 \div 7 = 10$

i) $6 \times 9 = 54$
 $54 \div 9 = 6$
 $54 \div 6 = 9$

3. Solve.

a) $r = 6 \times 4$
 $r = 24$

b) $g = 6 \times 8$
 $g = 48$

c) $k = 49 \div 7$
 $k = 7$

d) $8 \times b = 64$
 $b = 8$

e) $42 \div q = 7$
 $q = 6$

f) $4 \times m = 32$
 $m = 8$

g) $v = 81 \div 9$
 $v = 9$

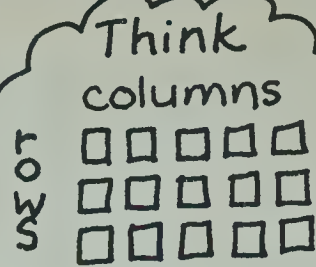
h) $d \times 8 = 40$
 $d = 5$

i) $54 \div u = 6$
 $u = 9$

j) $p \div 7 = 5$
 $p = 35$

k) $f = 9 \times 9$
 $f = 81$

1. 5 playing cards in a row.
3 rows of cards.
How many playing cards?



3 rows of 5
 $3 \times 5 = 15$
There are 15 cards.

2. 4 playing cards in a row.
4 rows of cards.
How many playing cards?

$$4 \times 4 = 16$$

There are 16 cards.

3. 42 playing cards.
6 rows of cards.
How many columns?

$$42 \div 6 = 7$$

There are 7 columns.

4. A parking lot has 10 rows of cars.
There are 8 cars in a row.
How many cars?

$$10 \times 8 = 80$$

There are 80 cars.

5. There are 45 bicycles
parked outside the library.
There are 9 in each row.
How many rows?

$$45 \div 9 = 5$$

There are 5 rows.

6. There are 3 lines of people.
Each line has 9 people.
How many people?

$$3 \times 9 = 27$$

There are 27 people.

7. 30 pupils in a class.
6 pupils in a row.
How many rows?

$$30 \div 6 = 5$$

There are 5 rows.

1. Complete the patterns.

a) $8 \times 10 = \underline{80}$

$9 \times 10 = \underline{90}$

$10 \times 10 = \underline{100}$

$11 \times 10 = \underline{110}$

$12 \times 10 = \underline{120}$

$13 \times 10 = \underline{130}$

d) $40 \div 10 = \underline{4}$

$50 \div 10 = \underline{5}$

$60 \div 10 = \underline{6}$

$70 \div 10 = \underline{7}$

$80 \div 10 = \underline{8}$

$90 \div 10 = \underline{9}$

b) $13 \times 10 = \underline{130}$

$23 \times 10 = \underline{230}$

$33 \times 10 = \underline{330}$

$43 \times 10 = \underline{430}$

$53 \times 10 = \underline{530}$

$63 \times 10 = \underline{630}$

e) $90 \div 10 = \underline{9}$

$100 \div 10 = \underline{10}$

$110 \div 10 = \underline{11}$

$120 \div 10 = \underline{12}$

$130 \div 10 = \underline{13}$

$140 \div 10 = \underline{14}$

c) $17 \times 10 = \underline{170}$

$27 \times 10 = \underline{270}$

$37 \times 10 = \underline{370}$

$47 \times 10 = \underline{470}$

$57 \times 10 = \underline{570}$

$67 \times 10 = \underline{670}$

f) $180 \div 10 = \underline{18}$

$280 \div 10 = \underline{28}$

$380 \div 10 = \underline{38}$

$480 \div 10 = \underline{48}$

$580 \div 10 = \underline{58}$

$680 \div 10 = \underline{68}$

2. 10 dimes have the same value as 1 dollar.

How many dimes can you exchange for

a) 2 dollars? 20 dimes

c) 5 dollars? 50 dimes

b) 3 dollars? 30 dimes

d) 8 dollars? 80 dimes

3. How many dollars can you exchange for

a) 30 dimes? 3 dollars

c) 60 dimes? 6 dollars

b) 50 dimes? 5 dollars

d) 90 dimes? 9 dollars

4. 1 dime has the same value as 10 pennies.

How many dimes can you exchange for

a) 20 pennies? 2 dimes

c) 40 pennies? 4 dimes

b) 60 pennies? 6 dimes

d) 80 pennies? 8 dimes

5. How many pennies can you exchange for

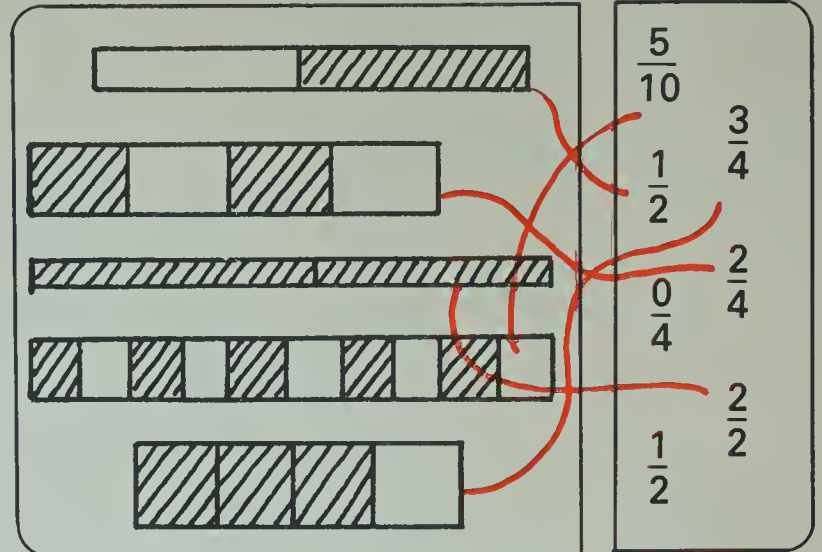
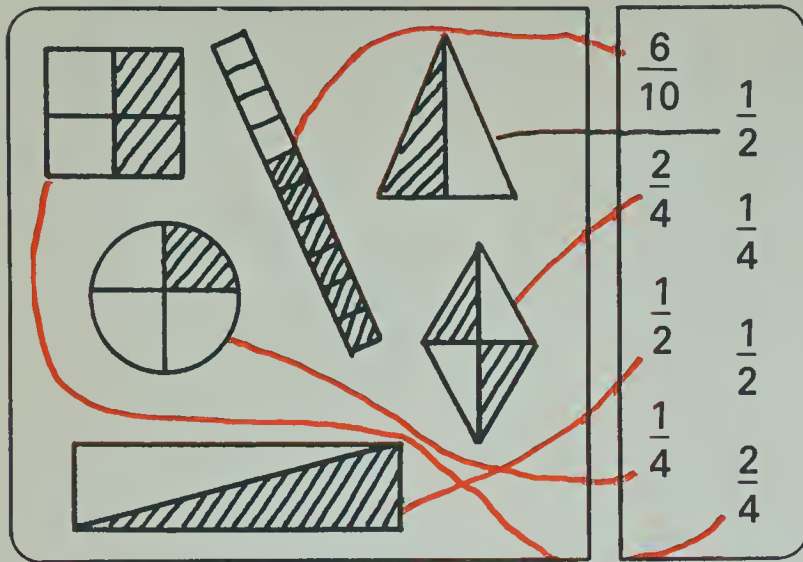
a) 4 dimes? 40 pennies

c) 8 dimes? 80 pennies

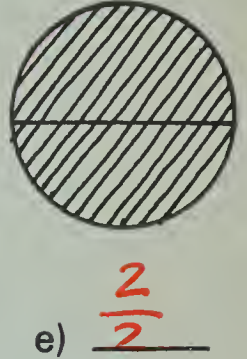
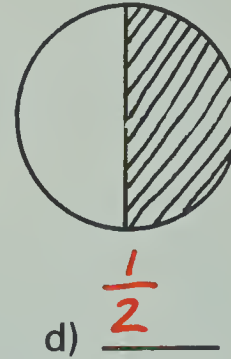
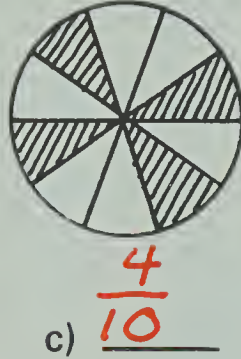
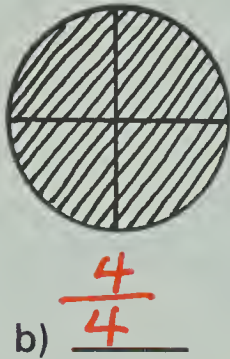
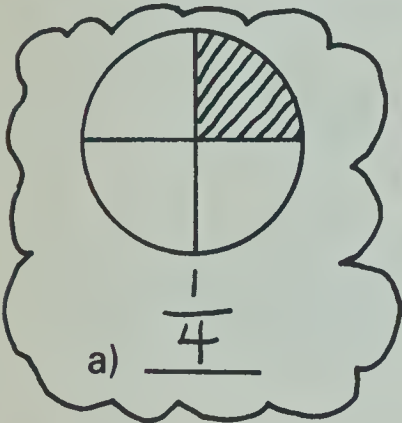
b) 7 dimes? 70 pennies

d) 10 dimes? 100 pennies

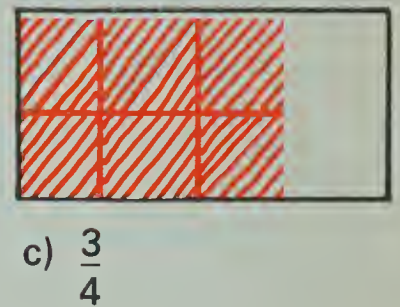
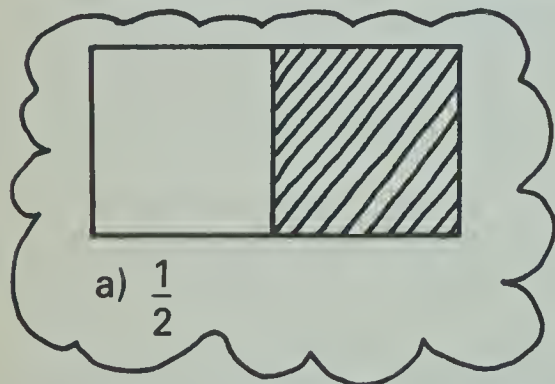
1. Draw lines to join each picture to the fraction that it shows.



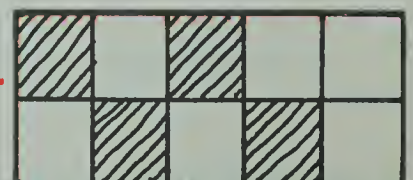
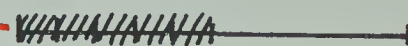
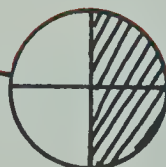
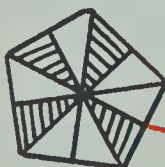
2. Write the fraction that tells what part is shaded.



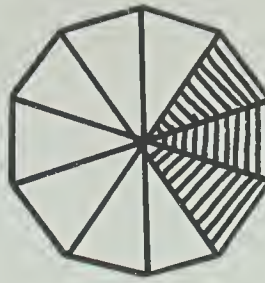
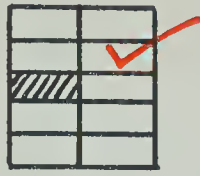
3. Divide and colour each figure to show the fraction.



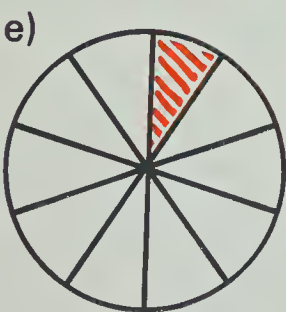
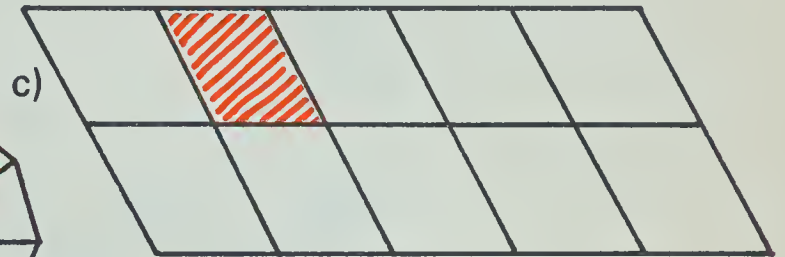
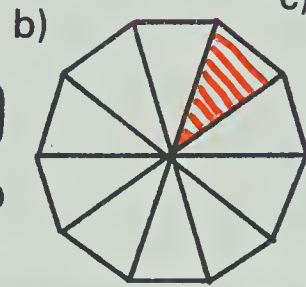
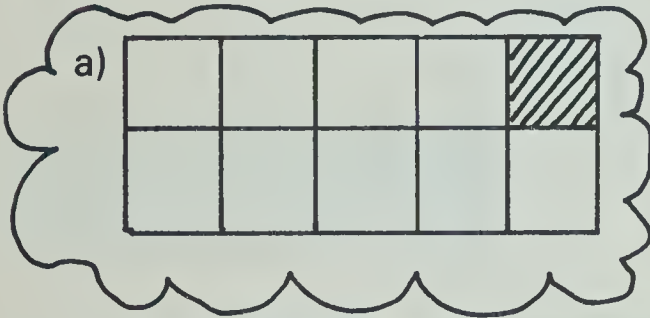
4. Draw lines to join pictures which show the same fraction.



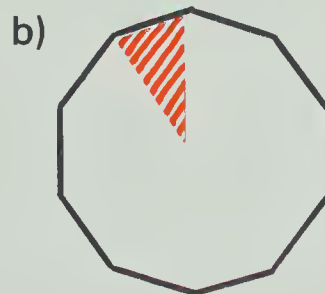
1. Put a check mark ($\checkmark$) on the pictures that show 0.1.



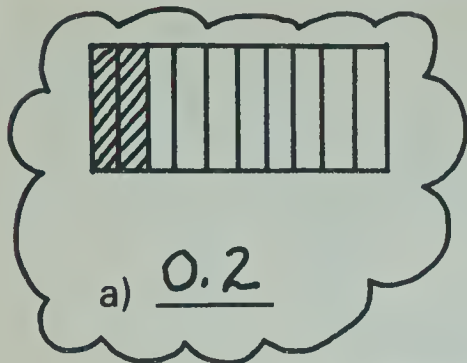
2. Colour each picture to show 0.1.



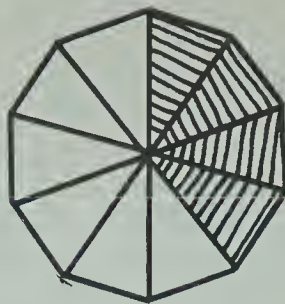
3. Divide and colour each picture to show 0.1.



1. Write the decimal that tells what part is shaded.

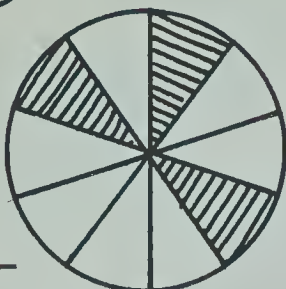


b) 0.4



c) 0.5

d) 0.3



e) 0.6

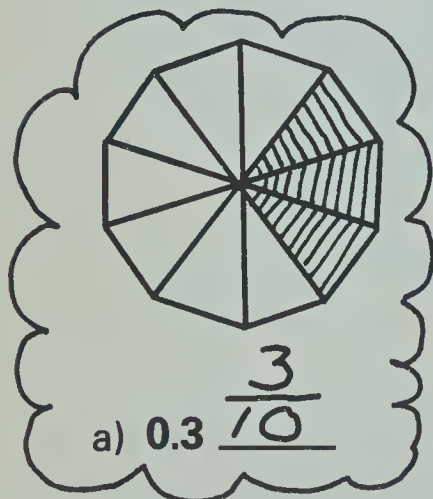


f) 0.5

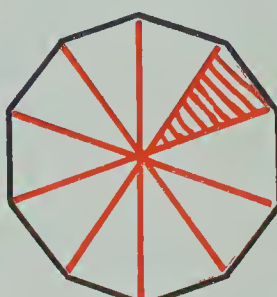


g) 1.0

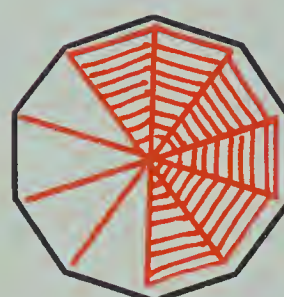
2. Divide and colour each figure to show the decimal.
Write the fraction.



b) 0.7 $\frac{7}{10}$



c) 0.1 $\frac{1}{10}$

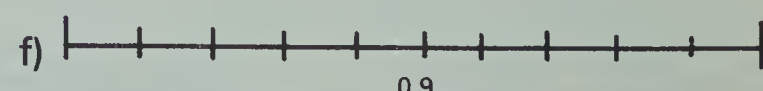
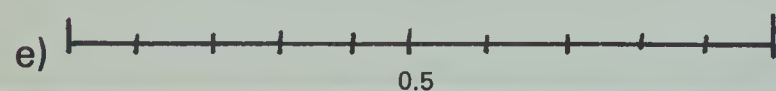
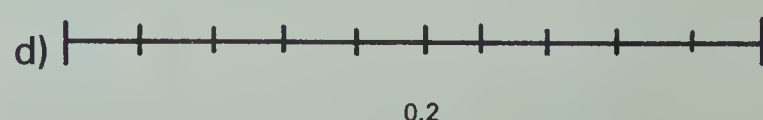
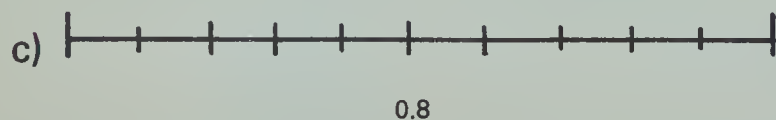
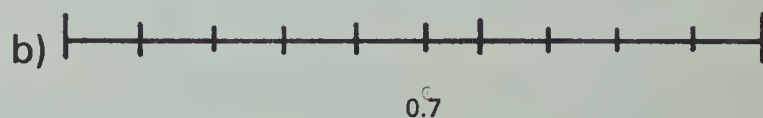
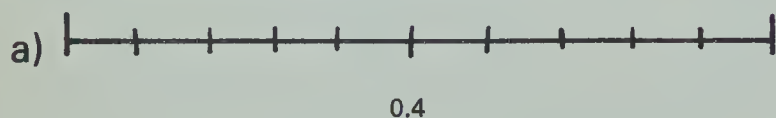


d) 0.6 _____

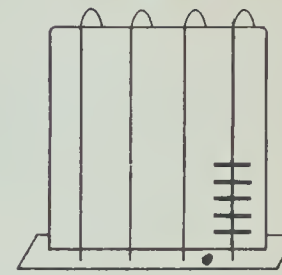
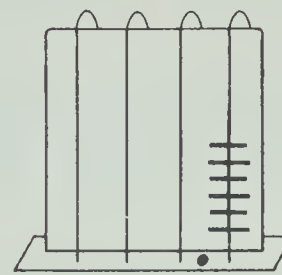
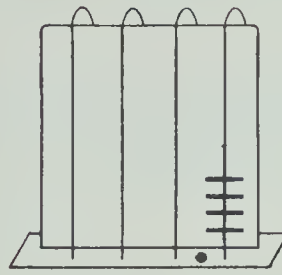
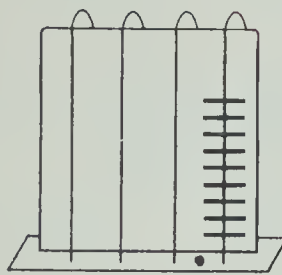
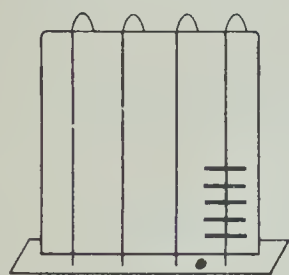
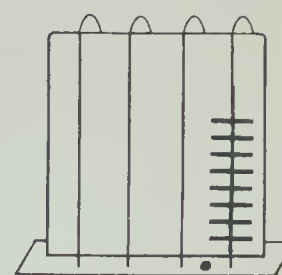
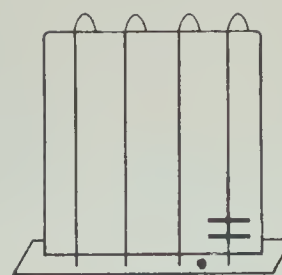
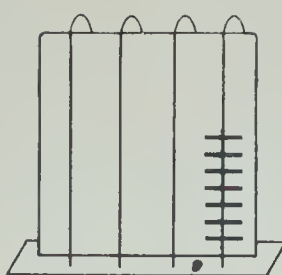
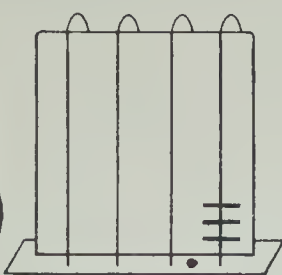
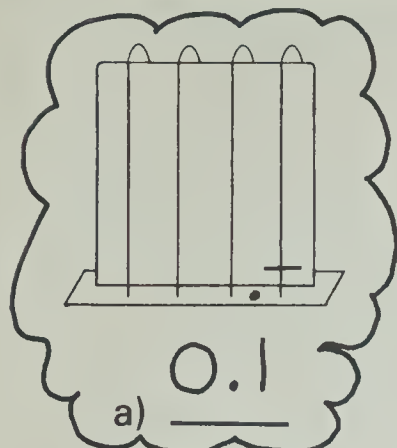


e) 0.9 $\frac{9}{10}$

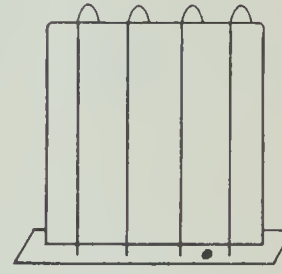
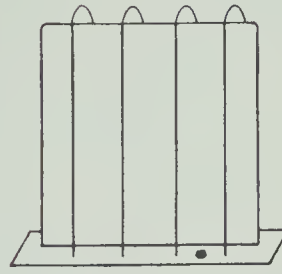
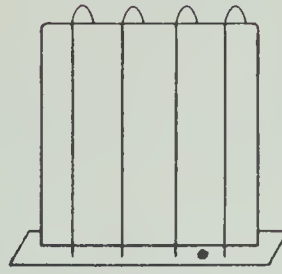
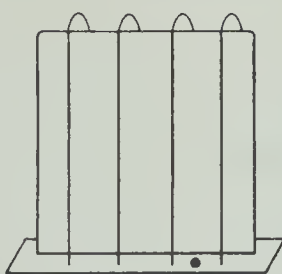
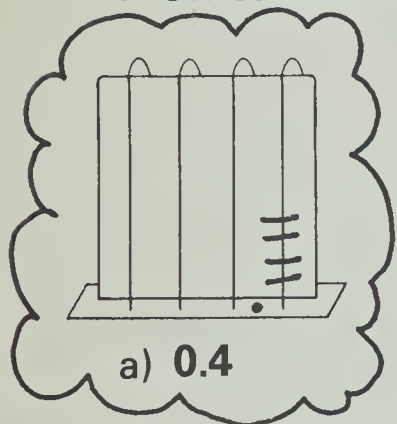
3. Colour to show each decimal.



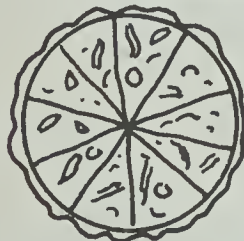
1. What decimals are represented?



2. Show each decimal on the abacus.



3. Write the decimal represent by the parts of the pizza.



4. Use the correct symbol $>$ or $<$ or $=$.

a) $0.3 < 0.7$

b) $0.6 > 0.4$

c) $0.6 > 0.5$

d) $0.1 < 0.6$

e) $0.1 < 0.2$

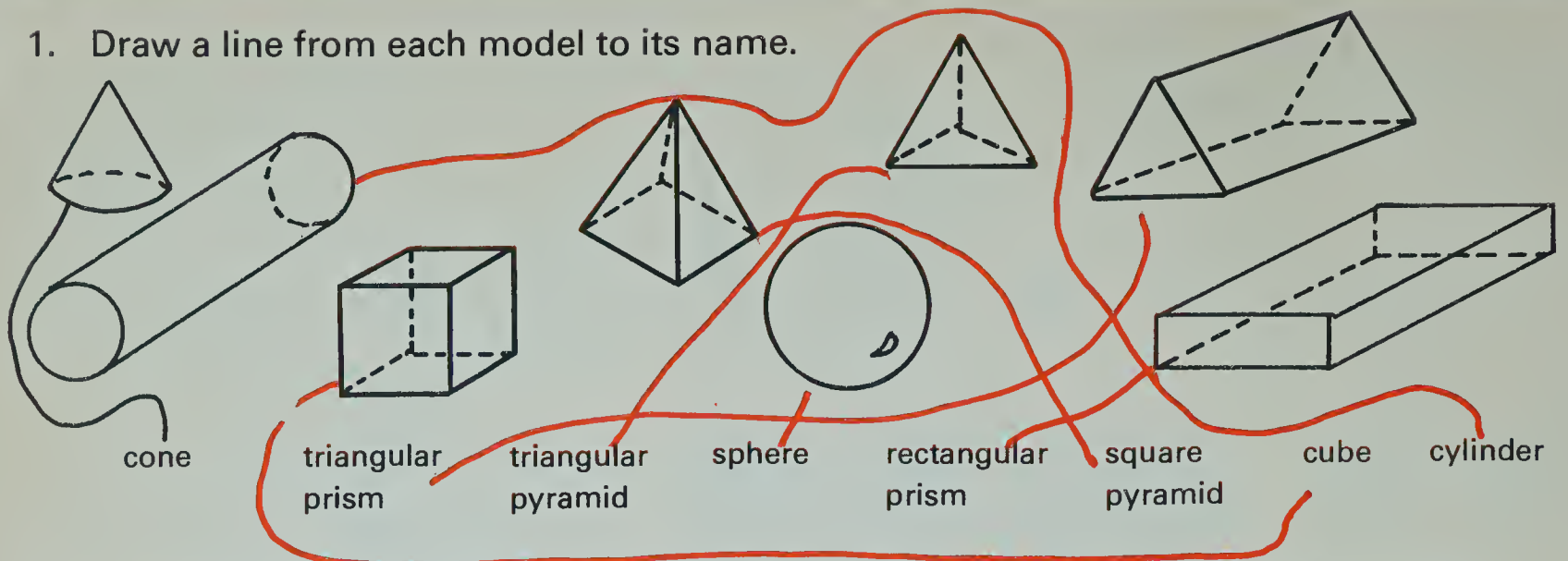
f) $0.5 = 0.5$

g) $0.3 < 0.4$

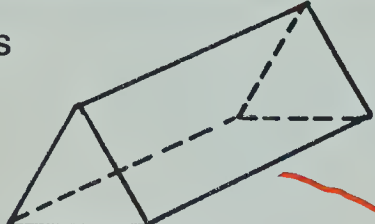
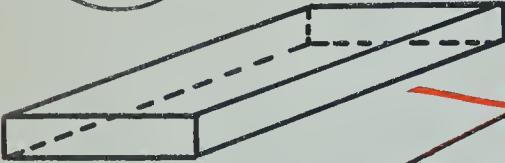
h) $0.3 > 0.2$

i) $0.9 > 0.8$

1. Draw a line from each model to its name.



2. a) Draw a line from each model to the name of an object that looks like the model.
b) Give another example of the model that is found in Nature.

Models	Real Objects	Example in Nature
	block	_____
	tennis ball	_____
	tent	_____
	refrigerator	_____
	teepee	_____
	water pipe	_____

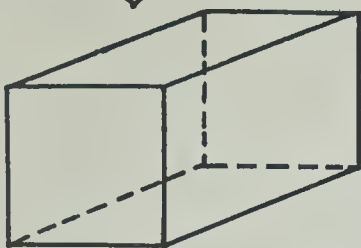
rectangular prism cylinder triangular prism cone square pyramid triangular pyramid cube

answers will vary.

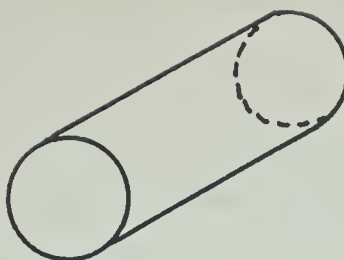
3. List the models that have

a) a square face	b) a rectangular face	c) a triangular face	d) a circular face
cube square pyramid	rectangular prism triangular prism	triangular prism triangular pyramid square pyramid	cylinder cone

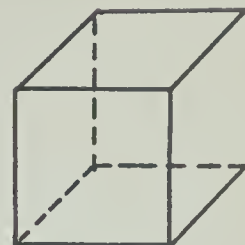
1. Name each model.



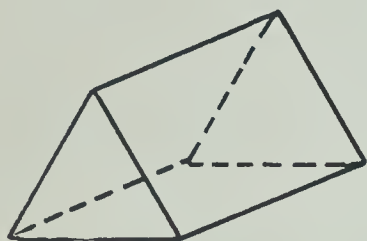
a) rectangular prism



b) cylinder



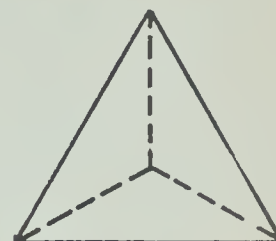
c) cube



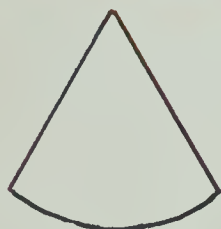
d) triangular prism



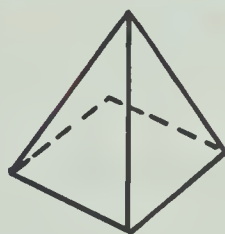
e) sphere



f) triangular pyramid



g) cone



h) square pyramid

2. Complete the chart. Use models to help you.

Models with no faces	Models with 1 face	Models with 2 faces
<u>sphere</u>	<u>cone</u>	<u>cylinder</u>
Models with 4 faces	Models with 5 faces	Models with 6 faces
<u>triangular pyramid</u>	<u>square pyramid</u> <u>triangular prism</u>	<u>cube</u> <u>rectangular prism</u>

1. Put a check mark in the correct column to show the number of faces for each model. Use models to help you.

Model	Number of faces						
	0	1	2	3	4	5	6
cone		✓					
cylinder			✓				
sphere	✓						
cube							✓
rectangular prism							✓
triangular prism						✓	
square pyramid						✓	
triangular pyramid					✓		

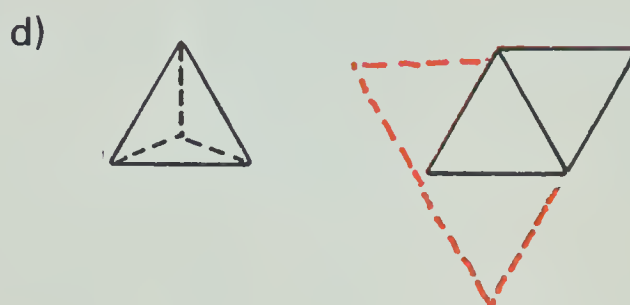
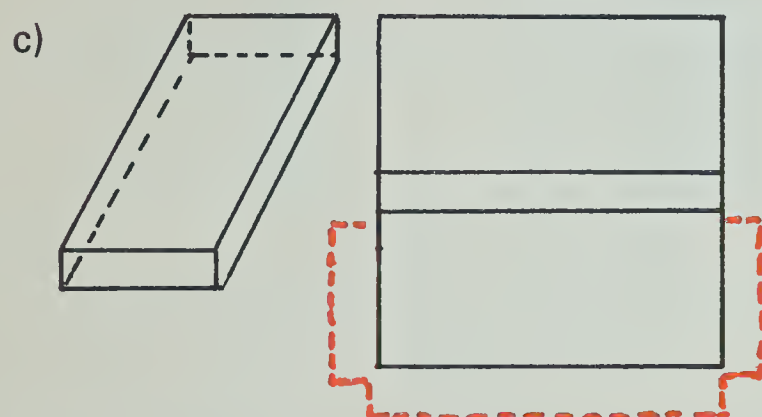
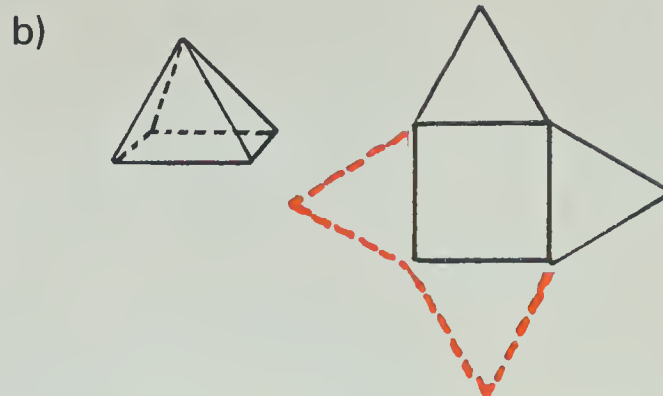
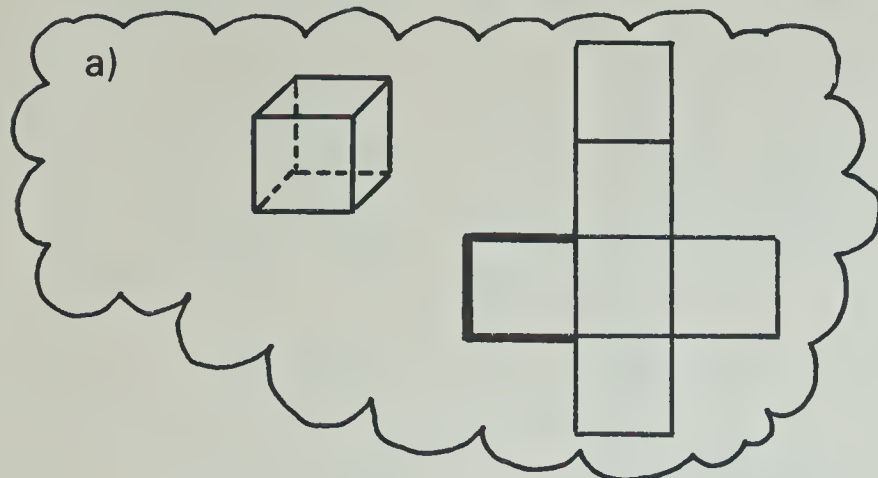
2. Put a check mark in the correct column to show the number of edges for each model.

Model	Number of edges												
	0	1	2	3	4	5	6	7	8	9	10	11	12
cone	✓												
cylinder	✓												
sphere	✓												
cube													✓
rectangular prism													✓
triangular prism										✓			
square pyramid									✓				
triangular pyramid							✓						

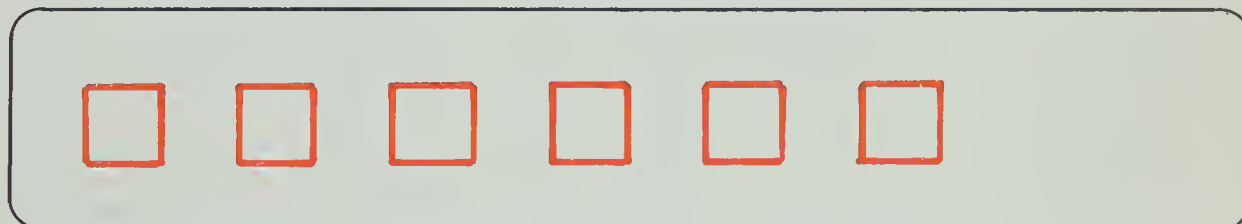
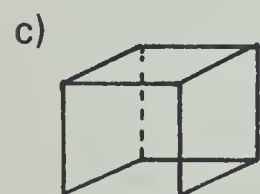
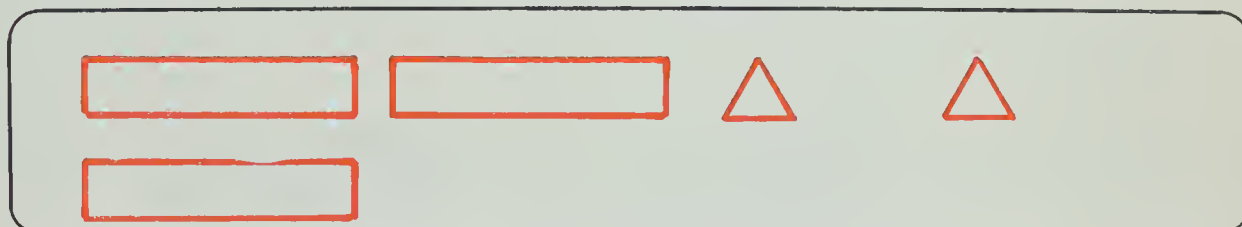
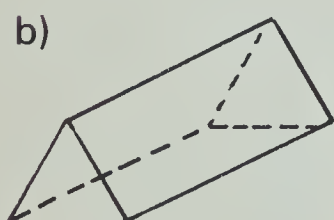
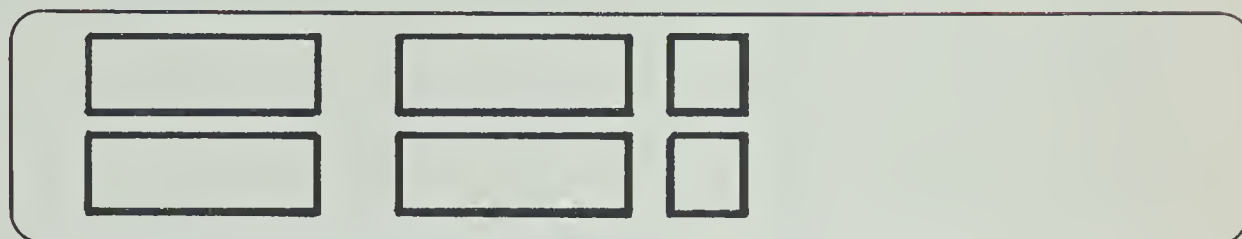
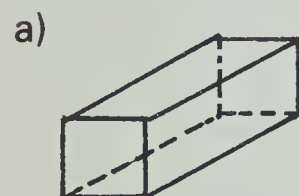
3. Put a check mark in the correct column to show the number of vertices for each model.

Model	Number of vertices									
	0	1	2	3	4	5	6	7	8	
cone		✓								
cylinder	✓									
sphere	✓									
cube									✓	
rectangular prism									✓	
triangular prism							✓			
square pyramid						✓				
triangular pyramid					✓					

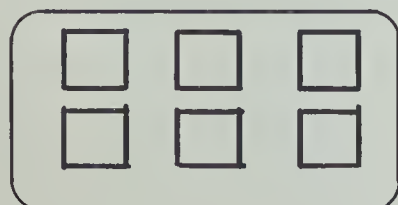
1. Complete the pattern for each model. Use models to help you.



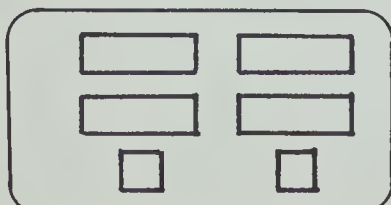
2. Draw the faces of each model. Use models to help you.



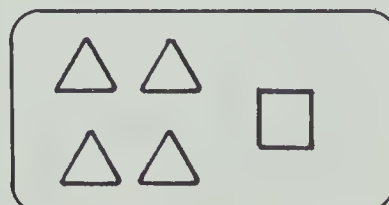
3. For each set of faces, what is the model?



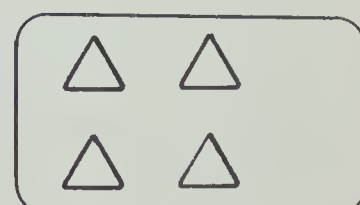
a) cube



b) rectangular prism

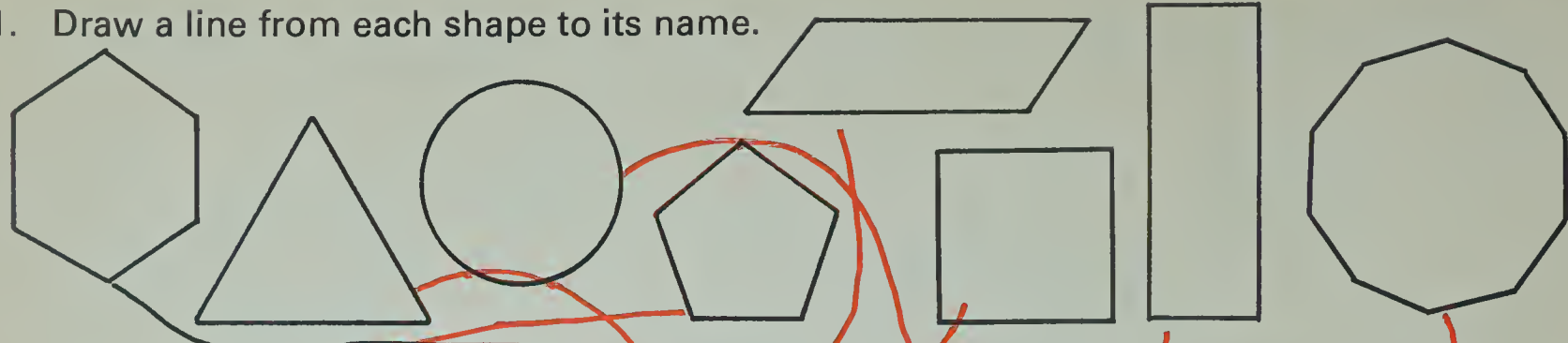


c) square pyramid



d) triangular pyramid

1. Draw a line from each shape to its name.



pentagon
decagon
parallelogram
rectangle
square
circle
triangle

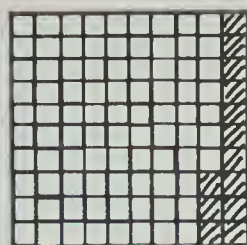
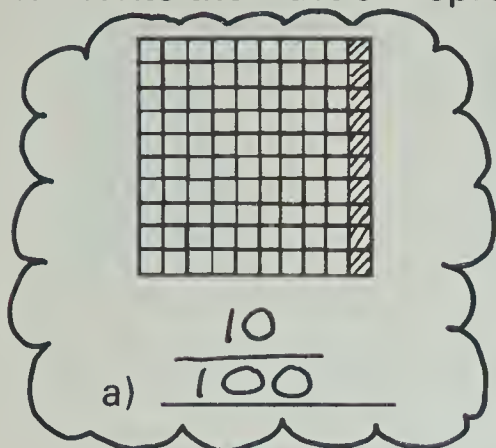
2. Put a check mark in the correct column to show the number of sides for each shape. Use a set of shapes to help you.

	Number of sides										
Shape	0	1	2	3	4	5	6	7	8	9	10
triangle				✓							
rectangle					✓						
octagon									✓		
hexagon							✓				
parallelogram					✓						
circle	✓										
rhombus					✓						
pentagon						✓					
square					✓						

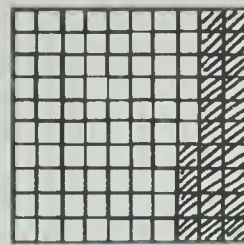
3. Put a check mark in the correct column to show the number of vertices for each shape.

	Number of vertices											
Shape	0	1	2	3	4	5	6	7	8	9	10	
triangle				✓								
rectangle					✓							
octagon									✓			
hexagon							✓					
parallelogram					✓							
circle	✓											
rhombus					✓							
pentagon						✓						
square					✓							

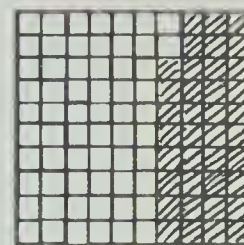
1. Write the fraction represented.



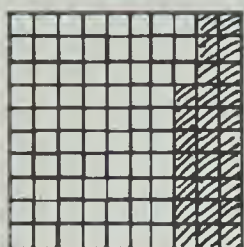
b) $\frac{13}{100}$



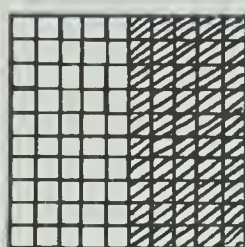
c) $\frac{24}{100}$



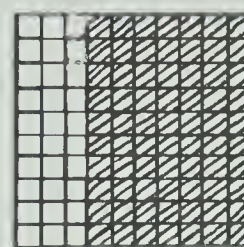
d) $\frac{38}{100}$



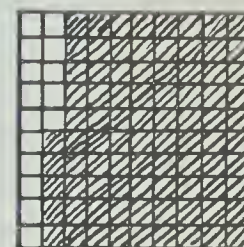
e) $\frac{27}{100}$



f) $\frac{50}{100}$

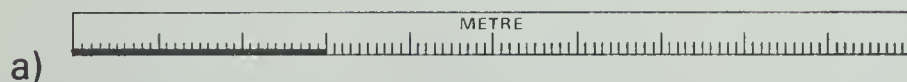


g) $\frac{70}{100}$

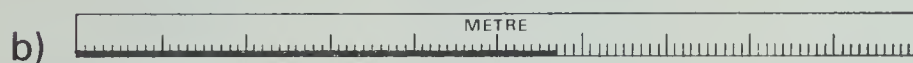


h) $\frac{85}{100}$

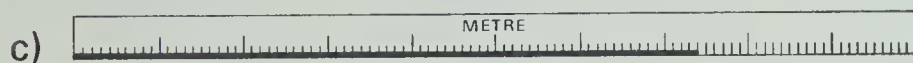
2. Write the fraction represented.



$\frac{30}{100}$

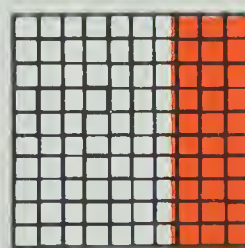
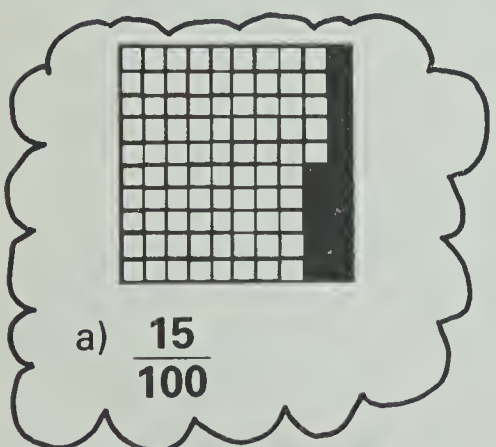


$\frac{57}{100}$

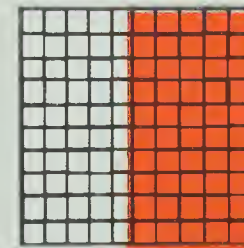


$\frac{74}{100}$

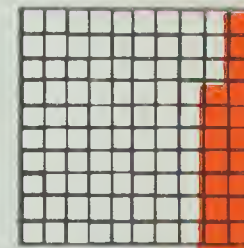
3. Colour to show each fraction.



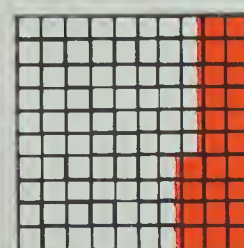
b) $\frac{30}{100}$



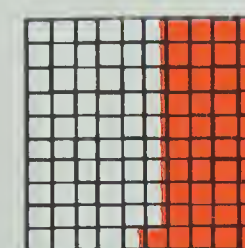
c) $\frac{50}{100}$



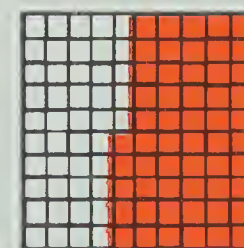
d) $\frac{17}{100}$



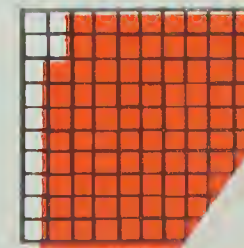
e) $\frac{24}{100}$



f) $\frac{41}{100}$

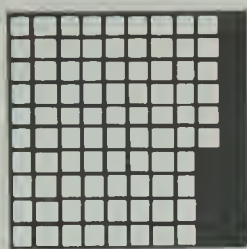


g) $\frac{55}{100}$

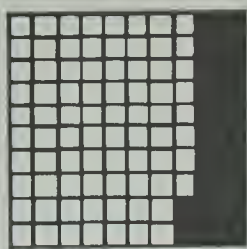


h) $\frac{88}{100}$

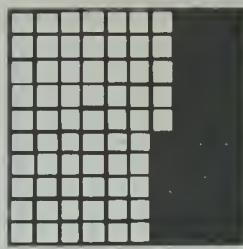
1. Write the decimal represented.



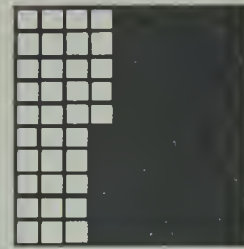
a) 0.14



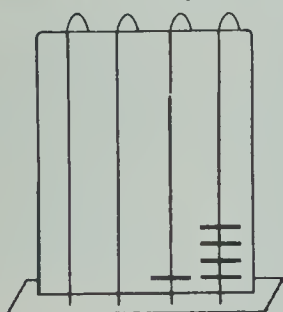
b) 0.22



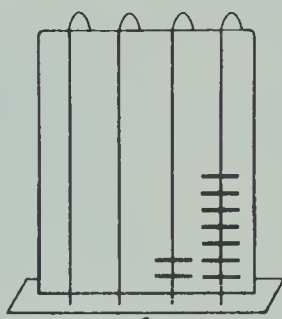
c) 0.35



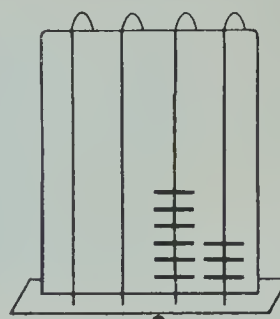
d) 0.65



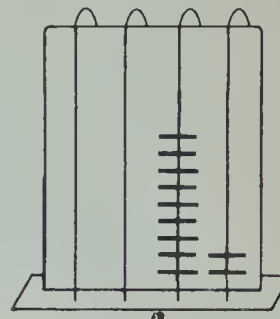
e) 0.14



f) 0.27

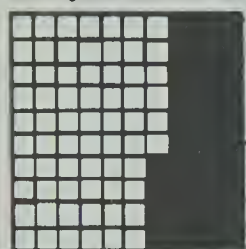


g) 0.63

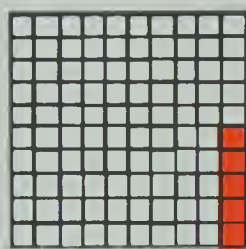


h) 0.92

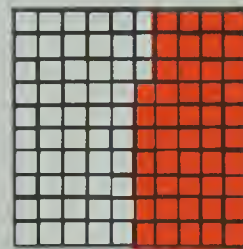
2. Show each decimal.



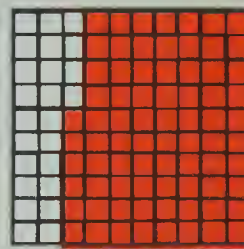
a) **0.34**



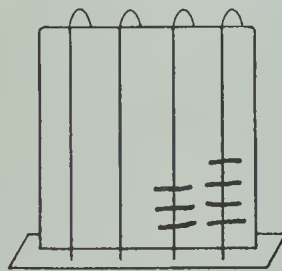
b) **0.05**



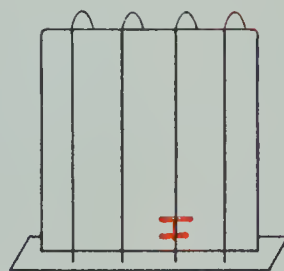
c) **0.47**



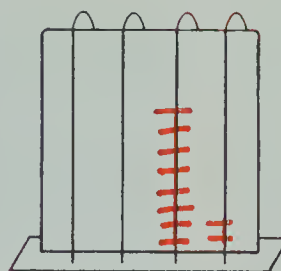
d) **0.75**



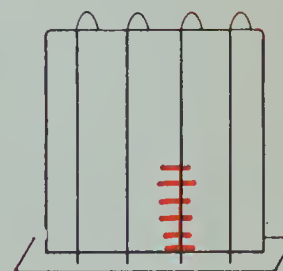
e) **0.34**



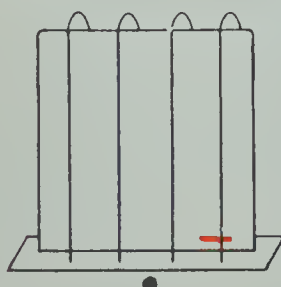
f) **0.20**



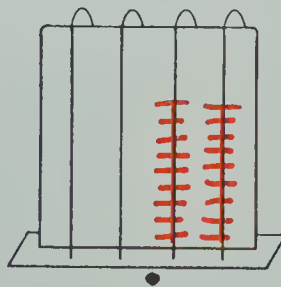
g) **0.82**



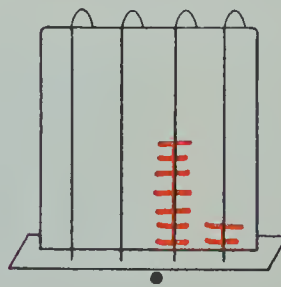
h) **0.60**



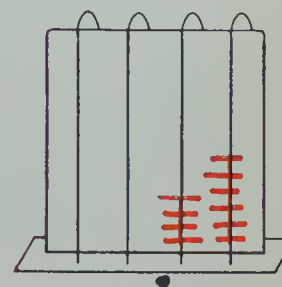
i) **0.01**



j) **0.99**



k) **0.72**

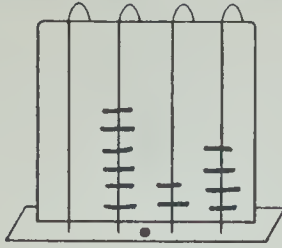


l) **0.46**

1. What numbers are represented? Show each number on the abacus.

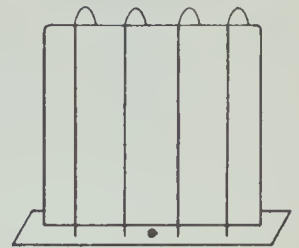
a) 6 ones, 2 tenths, and 4 hundredths

6.24



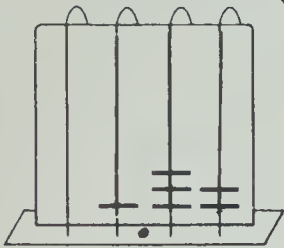
b) 2 ones, 5 tenths, and 8 hundredths

2.58



2. What numbers are represented? Write the meaning form of each number.

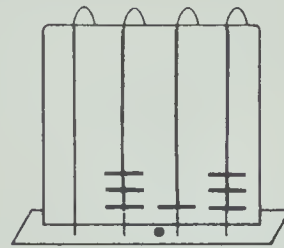
a)



1.32

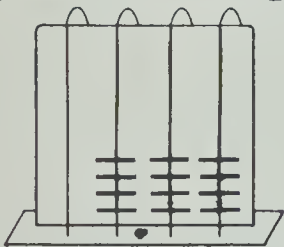
1 one, 3 tenths and 2 hundredths

b)



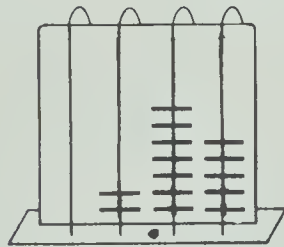
3.13

c)



4.44

d)

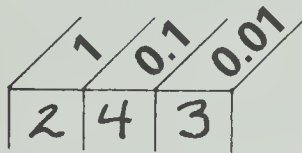


2.75

3. What numbers are represented? Explain each number in the place value chart.

a) 2 ones, 4 tenths, and 3 hundredths

2.43



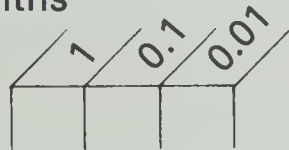
b) 8 ones, 7 tenths, and 1 hundredth

8.71



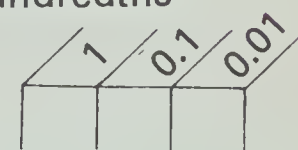
c) 5 ones and 6 tenths

5.6



d) 2 ones and 7 hundredths

2.07



4. Write the expanded form for each number.

a) 1.82 $1 + 0.8 + 0.02$

b) 4.63 $4 + 0.6 + 0.03$

c) 3.59 $3 + 0.5 + 0.09$

d) 8.04 $8 + 0.04$

e) 1.19 $1 + 0.1 + 0.09$

f) 5.6 $5 + 0.6$

g) 7.08 $7 + 0.08$

h) 1.5 $1 + 0.5$

1. Exchange 10 for 1.

a) or 23

b) or 4.1

c) or 2

d) or 6.2

2. Show each number on the abacus.
Exchange 1 for 10.

a) 3.4 or or 2 14

b) 4.3 or or 3 13

c) 3.2 or or — —

d) 1.2 or or 0 12

3. Regroup and add.

a) $4 + 1.3 = \underline{5} + \underline{0.3}$
 $= \underline{5.3}$

c) $1 + 4.7 = \underline{5} + \underline{0.7}$
 $= \underline{5.7}$

e) $5 + 2.5 = \underline{7} + \underline{0.5}$
 $= \underline{7.5}$

b) $2 + 2.6 = \underline{4} + \underline{0.6}$
 $= \underline{4.6}$

d) $3 + 1.8 = \underline{4} + \underline{0.8}$
 $= \underline{4.8}$

f) $3 + 3.3 = \underline{6} + \underline{0.3}$
 $= \underline{6.3}$

1. Add.

$$\begin{array}{l}
 \text{a) } 5.6 = \underline{5} \text{ and } \underline{6} \text{ tenths} \\
 2.9 = \underline{2} \text{ and } \underline{9} \text{ tenths} \\
 \quad \underline{7} \text{ and } \underline{15} \text{ tenths} \\
 = \underline{8} \text{ and } \underline{5} \text{ tenths}
 \end{array}$$

$$\begin{array}{l}
 \text{b) } 4.4 = 4 \text{ and } 4 \text{ tenths} \\
 1.8 = \underline{1} \text{ and } 8 \text{ tenths} \\
 \quad \underline{5} \text{ and } 12 \text{ tenths} \\
 = \underline{6} \text{ and } 2 \text{ tenths}
 \end{array}$$

$$\begin{array}{l}
 \text{c) } 2.9 = 2 \text{ and } 9 \text{ tenths} \\
 1.8 = \underline{1} \text{ and } 8 \text{ tenths} \\
 \quad \underline{3} \text{ and } 17 \text{ tenths} \\
 = 4 \text{ and } \underline{7} \text{ tenths}
 \end{array}$$

$$\begin{array}{l}
 \text{d) } 6.7 = 6 \text{ and } 7 \text{ tenths} \\
 1.6 = \underline{1} \text{ and } 6 \text{ tenths} \\
 \quad \underline{7} \text{ and } 13 \text{ tenths} \\
 = \underline{8} \text{ and } \underline{3} \text{ tenths}
 \end{array}$$

$$\begin{array}{l}
 \text{e) } 3.9 = 3 \text{ and } 9 \text{ tenths} \\
 4.4 = \underline{4} \text{ and } 4 \text{ tenths} \\
 \quad \underline{7} \text{ and } \underline{13} \text{ tenths} \\
 = \underline{8} \text{ and } \underline{4} \text{ tenths}
 \end{array}$$

$$\begin{array}{l}
 \text{f) } 7.5 = 7 \text{ and } 5 \text{ tenths} \\
 1.8 = \underline{1} \text{ and } 8 \text{ tenths} \\
 \quad \underline{8} \text{ and } \underline{13} \text{ tenths} \\
 = \underline{9} \text{ and } \underline{3} \text{ tenths}
 \end{array}$$

$$\begin{array}{l}
 \text{g) } 2.9 = 2 \text{ and } \underline{9} \text{ tenths} \\
 4.8 = \underline{4} \text{ and } \underline{8} \text{ tenths} \\
 \quad \underline{6} \text{ and } \underline{17} \text{ tenths} \\
 = \underline{7} \text{ and } \underline{7} \text{ tenths}
 \end{array}$$

$$\begin{array}{l}
 \text{h) } 5.5 = 5 \text{ and } \underline{5} \text{ tenths} \\
 3.9 = \underline{3} \text{ and } 9 \text{ tenths} \\
 \quad \underline{2} \text{ and } \underline{14} \text{ tenths} \\
 = \underline{9} \text{ and } \underline{4} \text{ tenths}
 \end{array}$$

$$\begin{array}{l}
 \text{i) } 3.7 = 3 \text{ and } \underline{7} \text{ tenths} \\
 4.6 = \underline{4} \text{ and } 6 \text{ tenths} \\
 \quad \underline{7} \text{ and } \underline{13} \text{ tenths} \\
 = \underline{8} \text{ and } \underline{3} \text{ tenths}
 \end{array}$$

$$\begin{array}{l}
 \text{j) } 5.9 = 5 \text{ and } 9 \text{ tenths} \\
 3.1 = \underline{3} \text{ and } \underline{1} \text{ tenths} \\
 \quad \underline{8} \text{ and } \underline{10} \text{ tenths} \\
 = \underline{9} \text{ and } \underline{0} \text{ tenths}
 \end{array}$$

$$\begin{array}{l}
 \text{k) } 2.7 = \underline{2} \text{ and } \underline{7} \text{ tenths} \\
 2.7 = \underline{2} \text{ and } \underline{7} \text{ tenths} \\
 \quad \underline{4} \text{ and } \underline{14} \text{ tenths} \\
 = \underline{5} \text{ and } \underline{4} \text{ tenths}
 \end{array}$$

$$\begin{array}{l}
 \text{l) } 3.9 = \underline{3} \text{ and } \underline{9} \text{ tenths} \\
 4.7 = \underline{4} \text{ and } \underline{7} \text{ tenths} \\
 \quad \underline{7} \text{ and } \underline{16} \text{ tenths} \\
 = \underline{8} \text{ and } \underline{6} \text{ tenths}
 \end{array}$$

$$\begin{array}{l}
 \text{m) } 7.4 = \underline{7} \text{ and } \underline{4} \text{ tenths} \\
 1.7 = \underline{1} \text{ and } \underline{7} \text{ tenths} \\
 \quad \underline{8} \text{ and } \underline{11} \text{ tenths} \\
 = \underline{9} \text{ and } \underline{1} \text{ tenths}
 \end{array}$$

$$\begin{array}{l}
 \text{n) } 2.8 = \underline{2} \text{ and } \underline{8} \text{ tenths} \\
 4.2 = \underline{4} \text{ and } \underline{2} \text{ tenths} \\
 \quad \underline{6} \text{ and } \underline{10} \text{ tenths} \\
 = \underline{7} \text{ and } \underline{0} \text{ tenths}
 \end{array}$$

1. Add.

$$\begin{array}{r} 6.7 \\ 1.8 \\ \hline 8.5 \end{array}$$

Think Record
15 5
2, 8 8

b) 3.6

$$\begin{array}{r} 1.6 \\ 5.2 \end{array}$$

c) 5.2

$$\begin{array}{r} 3.9 \\ 9.1 \end{array}$$

d) 4.3

$$\begin{array}{r} 2.7 \\ 7.0 \end{array}$$

e) 3.4

$$\begin{array}{r} 2.7 \\ 6.1 \end{array}$$

f) 4.8

$$\begin{array}{r} 2.6 \\ 7.4 \end{array}$$

g) 5.8

$$\begin{array}{r} 1.8 \\ 7.6 \end{array}$$

h) 6.3

$$\begin{array}{r} 2.9 \\ 9.2 \end{array}$$

i) 3.7

$$\begin{array}{r} 5.7 \\ 9.4 \end{array}$$

j) 4.4

$$\begin{array}{r} 1.8 \\ 6.2 \end{array}$$

k) 4.4

$$\begin{array}{r} 3.9 \\ 8.3 \end{array}$$

l) 2.6

$$\begin{array}{r} 5.6 \\ 8.2 \end{array}$$

m) 1.6

$$\begin{array}{r} 1.8 \\ 3.4 \end{array}$$

n) 3.5

$$\begin{array}{r} 4.6 \\ 8.1 \end{array}$$

o) 3.9

$$\begin{array}{r} 1.9 \\ 5.8 \end{array}$$

p) 4.7

$$\begin{array}{r} 3.3 \\ 8.0 \end{array}$$

2. Add.

a) 3.5

$$\begin{array}{r} 2.6 \\ 6.1 \end{array}$$

b) 4.7

$$\begin{array}{r} 1.8 \\ 6.5 \end{array}$$

c) 3.7

$$\begin{array}{r} 5.4 \\ 9.1 \end{array}$$

d) 2.4

$$\begin{array}{r} 2.6 \\ 5.0 \end{array}$$

e) 7.1

$$\begin{array}{r} 1.9 \\ 9.0 \end{array}$$

f) 5.7

$$\begin{array}{r} 1.7 \\ 7.4 \end{array}$$

g) 4.5

$$\begin{array}{r} 3.5 \\ 8.0 \end{array}$$

h) 1.7

$$\begin{array}{r} 1.3 \\ 3.0 \end{array}$$

i) 6.2

$$\begin{array}{r} 2.9 \\ 9.1 \end{array}$$

j) 4.4

$$\begin{array}{r} 1.6 \\ 6.0 \end{array}$$

k) 3.4

$$\begin{array}{r} 1.9 \\ 5.3 \end{array}$$

l) 6.8

$$\begin{array}{r} 2.9 \\ 9.7 \end{array}$$

m) 3.8

$$\begin{array}{r} 2.2 \\ 6.0 \end{array}$$

n) 1.6

$$\begin{array}{r} 1.7 \\ 3.3 \end{array}$$

o) 3.3

$$\begin{array}{r} 4.9 \\ 8.2 \end{array}$$

p) 2.7

$$\begin{array}{r} 6.7 \\ 9.4 \end{array}$$

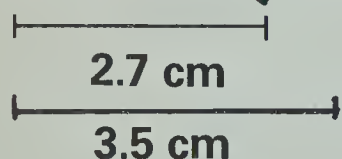
q) 2.5

$$\begin{array}{r} 5.6 \\ 8.1 \end{array}$$

r) 5.8

$$\begin{array}{r} 2.8 \\ 8.6 \end{array}$$

3.

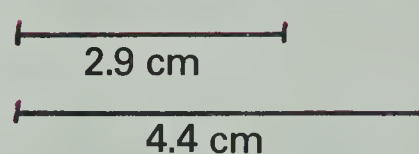


What is the total length?

$$\begin{array}{r} 2.7 \\ 3.5 \\ \hline 6.2 \end{array}$$

The total length is 6.2 cm.

4.

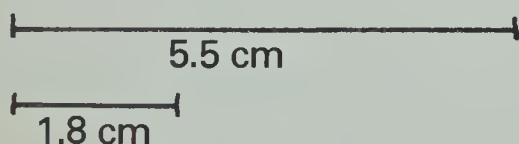


What is the total length?

$$\begin{array}{r} 2.9 \\ 4.4 \\ \hline 7.3 \end{array}$$

The total length is 7.3 cm.

5.

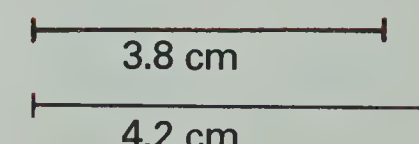


What is the total length?

$$\begin{array}{r} 5.5 \\ 1.8 \\ \hline 7.3 \end{array}$$

The total length is 7.3 cm.

6.



What is the total length?

$$\begin{array}{r} 3.8 \\ 4.2 \\ \hline 8.0 \end{array}$$

The total length is 8.0 cm.

1. Subtract.

a) $6.3 = \underline{6}$ and $\underline{3}$ tenths $= \underline{5}$ and $\underline{13}$ tenths
 $\underline{2.9} = \underline{2}$ and $\underline{9}$ tenths $= \underline{2}$ and $\underline{9}$ tenths
 $\underline{3}$ and $\underline{4}$ tenths

b) $8.2 = 8$ and 2 tenths $= 7$ and 12 tenths
 $\underline{3.5} = \underline{3}$ and 5 tenths $= \underline{3}$ and 5 tenths
 $\underline{4}$ and $\underline{7}$ tenths

c) $6.3 = 6$ and 3 tenths $= \underline{5}$ and 13 tenths
 $\underline{2.8} = \underline{2}$ and 8 tenths $= \underline{2}$ and 8 tenths
 $\underline{3}$ and $\underline{5}$ tenths

d) $9.1 = 9$ and 1 tenth $= \underline{8}$ and $\underline{11}$ tenths
 $\underline{4.3} = \underline{\quad}$ and $\underline{\quad}$ tenths $= \underline{4}$ and $\underline{3}$ tenths
 $\underline{4}$ and $\underline{8}$ tenths

e) $7.4 = \underline{7}$ and $\underline{4}$ tenths $= \underline{6}$ and $\underline{14}$ tenths
 $\underline{2.7} = \underline{2}$ and $\underline{7}$ tenths $= \underline{2}$ and $\underline{7}$ tenths
 $\underline{4}$ and $\underline{7}$ tenths

2. Subtract.

a) $7.3 = \underline{6}$ and $\underline{13}$ tenths
 $\underline{3.6} = \underline{3}$ and $\underline{6}$ tenths
 $\underline{3}$ and $\underline{7}$ tenths

b) $5.4 = 4$ and 14 tenths
 $\underline{1.8} = \underline{1}$ and 8 tenths
 $\underline{3}$ and $\underline{6}$ tenths

c) $4.3 = 3$ and 13 tenths
 $\underline{1.5} = \underline{1}$ and $\underline{5}$ tenths
 $\underline{2}$ and $\underline{8}$ tenths

d) $7.5 = 6$ and 15 tenths
 $\underline{2.6} = \underline{2}$ and $\underline{6}$ tenths
 $\underline{4}$ and $\underline{9}$ tenths

e) $6.3 = 5$ and $\underline{13}$ tenths
 $\underline{2.8} = \underline{2}$ and 8 tenths
 $\underline{3}$ and $\underline{5}$ tenths

f) $8.8 = \underline{7}$ and 18 tenths
 $\underline{1.9} = \underline{1}$ and 9 tenths
 $\underline{6}$ and $\underline{9}$ tenths

g) $5.4 = 4$ and $\underline{14}$ tenths
 $\underline{2.8} = \underline{2}$ and $\underline{8}$ tenths
 $\underline{2}$ and $\underline{6}$ tenths

h) $3.3 = \underline{2}$ and 13 tenths
 $\underline{1.7} = \underline{1}$ and $\underline{7}$ tenths
 $\underline{1}$ and $\underline{6}$ tenths

1. Subtract.

$$\begin{array}{r} 5.3 \\ - 1.7 \\ \hline 3.6 \end{array}$$

Think
13, 6
4, 3

Record
6
3

$$\begin{array}{r} 3.3 \\ - 1.4 \\ \hline 1.9 \end{array}$$

$$\begin{array}{r} 5.6 \\ - 3.7 \\ \hline 1.9 \end{array}$$

$$\begin{array}{r} 5.8 \\ - 1.9 \\ \hline 3.9 \end{array}$$

$$\begin{array}{r} 5.4 \\ - 2.6 \\ \hline 2.8 \end{array}$$

$$\begin{array}{r} 6.2 \\ - 3.5 \\ \hline 2.7 \end{array}$$

$$\begin{array}{r} 7.1 \\ - 3.7 \\ \hline 3.4 \end{array}$$

$$\begin{array}{r} 4.2 \\ - 3.8 \\ \hline 0.4 \end{array}$$

$$\begin{array}{r} 6.4 \\ - 3.9 \\ \hline 2.5 \end{array}$$

$$\begin{array}{r} 9.1 \\ - 3.8 \\ \hline 5.3 \end{array}$$

$$\begin{array}{r} 7.2 \\ - 4.3 \\ \hline 2.9 \end{array}$$

$$\begin{array}{r} 6.6 \\ - 1.7 \\ \hline 4.9 \end{array}$$

$$\begin{array}{r} 8.3 \\ - 3.8 \\ \hline 4.5 \end{array}$$

2. Subtract.

$$\begin{array}{r} 6.1 \\ - 3.4 \\ \hline 2.7 \end{array}$$

$$\begin{array}{r} 6.8 \\ - 3.9 \\ \hline 2.9 \end{array}$$

$$\begin{array}{r} 9.4 \\ - 4.9 \\ \hline 4.5 \end{array}$$

$$\begin{array}{r} 7.3 \\ - 5.4 \\ \hline 1.9 \end{array}$$

$$\begin{array}{r} 5.6 \\ - 1.9 \\ \hline 3.7 \end{array}$$

$$\begin{array}{r} 8.2 \\ - 7.9 \\ \hline 0.3 \end{array}$$

$$\begin{array}{r} 3.2 \\ - 1.8 \\ \hline 1.4 \end{array}$$

$$\begin{array}{r} 8.4 \\ - 5.7 \\ \hline 2.7 \end{array}$$

$$\begin{array}{r} 6.5 \\ - 3.6 \\ \hline 2.9 \end{array}$$

$$\begin{array}{r} 5.5 \\ - 1.8 \\ \hline 3.7 \end{array}$$

$$\begin{array}{r} 8.4 \\ - 4.5 \\ \hline 3.9 \end{array}$$

$$\begin{array}{r} 6.4 \\ - 3.6 \\ \hline 2.8 \end{array}$$

$$\begin{array}{r} 7.3 \\ - 3.8 \\ \hline 3.5 \end{array}$$

$$\begin{array}{r} 2.1 \\ - 1.2 \\ \hline 0.9 \end{array}$$

$$\begin{array}{r} 5.4 \\ - 2.8 \\ \hline 2.6 \end{array}$$

$$\begin{array}{r} 7.3 \\ - 4.9 \\ \hline 2.4 \end{array}$$

$$\begin{array}{r} 9.7 \\ - 5.9 \\ \hline 3.8 \end{array}$$

$$\begin{array}{r} 4.3 \\ - 2.8 \\ \hline 1.5 \end{array}$$

3.



Total length: 5.5 cm
Cut off: 2.8 cm
How much is left?

$$\begin{array}{r} 5.5 \\ - 2.8 \\ \hline 2.7 \end{array}$$

2.7 cm is left.

4.



Total length: 7.6 cm
Cut off: 4.9 cm
How much is left?

$$\begin{array}{r} 7.6 \\ - 4.9 \\ \hline 2.7 \end{array}$$

2.7 cm is left.

5.



Total length: 6.3 cm
Cut off: 4.7 cm
How much is left?

$$\begin{array}{r} 6.3 \\ - 4.7 \\ \hline 1.6 \end{array}$$

1.6 cm is left.

6.



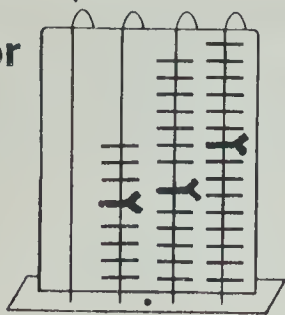
Total length: 5.6 cm
Cut off: 4.8 cm
How much is left?

$$\begin{array}{r} 5.6 \\ - 4.8 \\ \hline 0.8 \end{array}$$

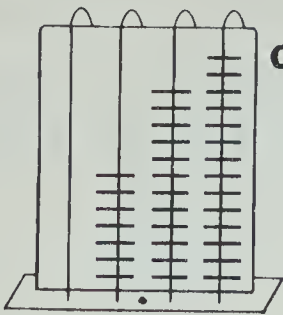
0.8 cm is left.

1. Regroup and add.

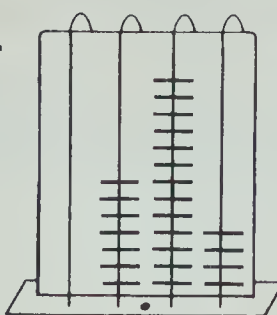
a) 3.76 or 4.58



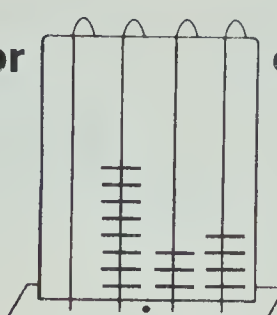
or



or



or



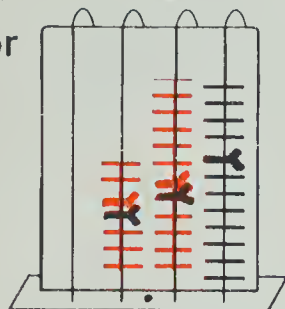
or 834

7 12 14

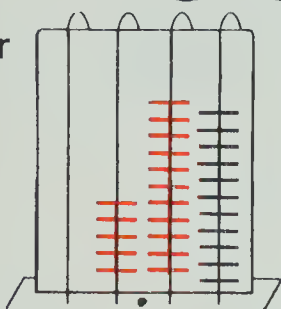
7 13 4

8 3 4

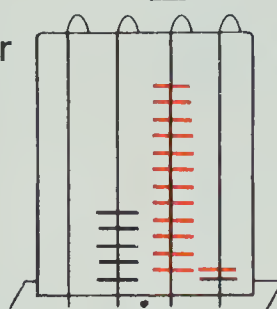
b) 2.64 or 3.57



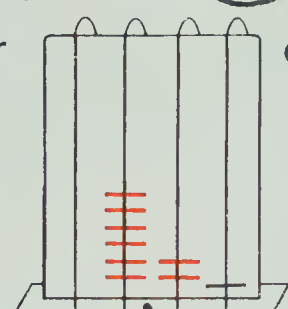
or



or



or



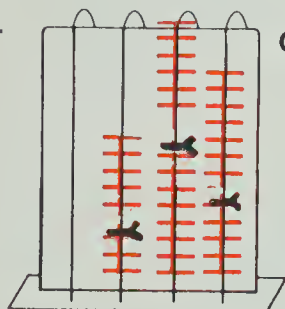
or 6.21

5 11 11

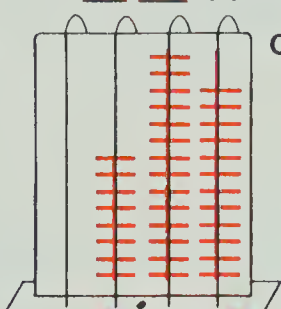
5 1

1 1

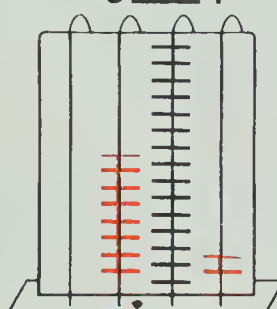
c) 5.67 or 3.85



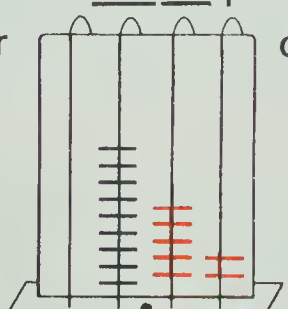
or



or



or



or 9.52

8 14 12

8 15 2

9 5 2

2. Add.

a) $3.76 = \underline{3}$ and $\underline{7}$ tenths and $\underline{6}$ hundredths
 $4.58 = \underline{4}$ and $\underline{5}$ tenths and $\underline{8}$ hundredths
 $= \underline{7}$ and $\underline{12}$ tenths and $\underline{14}$ hundredths
 $= \underline{7}$ and $\underline{13}$ tenths and $\underline{4}$ hundredths
 $= \underline{8}$ and $\underline{3}$ tenths and $\underline{4}$ hundredths

b) $5.83 = 5$ and $\underline{8}$ tenths and $\underline{3}$ hundredths
 $2.69 = \underline{2}$ and $\underline{6}$ tenths and $\underline{9}$ hundredths
 $= \underline{7}$ and $\underline{14}$ tenths and $\underline{12}$ hundredths
 $= 7$ and $\underline{15}$ tenths and $\underline{2}$ hundredths
 $= 8$ and $\underline{5}$ tenths and $\underline{2}$ hundredths

c) $3.99 = \underline{\quad}$ and $\underline{9}$ tenths and $\underline{9}$ hundredths
 $2.12 = \underline{\quad}$ and $\underline{1}$ tenths and $\underline{2}$ hundredths
 $= \underline{\quad}$ and $\underline{10}$ tenths and $\underline{11}$ hundredths
 $= \underline{\quad}$ and $\underline{11}$ tenths and $\underline{1}$ hundredths
 $= \underline{\quad}$ and $\underline{1}$ tenths and $\underline{1}$ hundredths

1. Add.

$$\begin{array}{r} \text{a) } 7.36 \\ + 1.95 \\ \hline 9.31 \end{array}$$

Think

 11
 10, 13
 2, 9

Record

 1
 3
 9

b) 5.38

$$\begin{array}{r} 2.95 \\ + 5.38 \\ \hline 8.33 \end{array}$$

c) 2.55

$$\begin{array}{r} 3.87 \\ + 2.55 \\ \hline 6.42 \end{array}$$

d) 6.32

$$\begin{array}{r} 3.89 \\ + 6.32 \\ \hline 10.21 \end{array}$$

e) 8.64

$$\begin{array}{r} 0.99 \\ + 8.64 \\ \hline 9.63 \end{array}$$

f) 3.44

$$\begin{array}{r} 4.87 \\ + 3.44 \\ \hline 8.31 \end{array}$$

g) 5.81

$$\begin{array}{r} 2.39 \\ + 5.81 \\ \hline 8.20 \end{array}$$

h) 7.99

$$\begin{array}{r} 0.36 \\ + 7.99 \\ \hline 8.35 \end{array}$$

i) 2.06

$$\begin{array}{r} 1.98 \\ + 2.06 \\ \hline 4.04 \end{array}$$

j) 5.83

$$\begin{array}{r} 3.46 \\ + 5.83 \\ \hline 9.29 \end{array}$$

k) 7.77

$$\begin{array}{r} 1.33 \\ + 7.77 \\ \hline 9.10 \end{array}$$

l) 6.30

$$\begin{array}{r} 3.98 \\ + 6.30 \\ \hline 10.28 \end{array}$$

m) 4.89

$$\begin{array}{r} 2.06 \\ + 4.89 \\ \hline 6.95 \end{array}$$

n) 5.66

$$\begin{array}{r} 5.78 \\ + 5.66 \\ \hline 11.44 \end{array}$$

o) 6.34

$$\begin{array}{r} 8.67 \\ + 6.34 \\ \hline 15.01 \end{array}$$

p) 7.08

$$\begin{array}{r} 5.68 \\ + 7.08 \\ \hline 12.76 \end{array}$$

q) 4.80

$$\begin{array}{r} 5.55 \\ + 4.80 \\ \hline 10.35 \end{array}$$

r) 6.07

$$\begin{array}{r} 2.38 \\ + 6.07 \\ \hline 8.45 \end{array}$$

s) 3.83

$$\begin{array}{r} 8.09 \\ + 3.83 \\ \hline 11.92 \end{array}$$

t) 1.75

$$\begin{array}{r} 4.89 \\ + 1.75 \\ \hline 6.64 \end{array}$$

u) 6.37

$$\begin{array}{r} 5.99 \\ + 6.37 \\ \hline 12.36 \end{array}$$

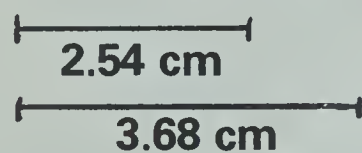
v) 3.63

$$\begin{array}{r} 8.47 \\ + 3.63 \\ \hline 12.10 \end{array}$$

w) 2.54

$$\begin{array}{r} 9.86 \\ + 2.54 \\ \hline 12.40 \end{array}$$

2.

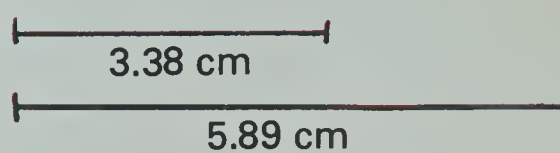


What is the total length?

$$\begin{array}{r} 2.54 \\ + 3.68 \\ \hline 6.22 \end{array}$$

The total length is 6.22 cm.

3.

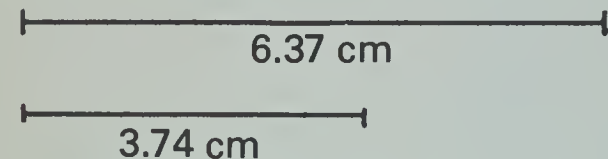


What is the total length?

$$\begin{array}{r} 3.38 \\ + 5.89 \\ \hline 9.27 \end{array}$$

The total length is 9.27 cm.

4.

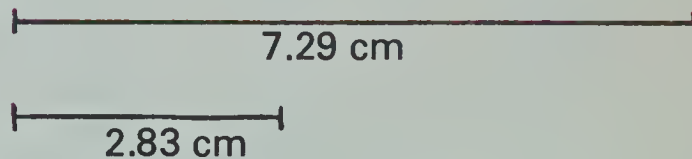


What is the total length?

$$\begin{array}{r} 6.37 \\ + 3.74 \\ \hline 10.11 \end{array}$$

The total length is 10.11 cm.

5.



What is the total length?

$$\begin{array}{r} 7.29 \\ + 2.83 \\ \hline 10.12 \end{array}$$

The total length is 10.12 cm.

1. Subtract.

a) $7.42 = \underline{7} \text{ and } \underline{4} \text{ tenths and } \underline{2} \text{ hundredths} = \underline{6} \text{ and } \underline{13} \text{ tenths and } \underline{2} \text{ hundredths}$
 $\underline{3.57} = \underline{3} \text{ and } \underline{5} \text{ tenths and } \underline{7} \text{ hundredths} = \underline{3} \text{ and } \underline{5} \text{ tenths and } \underline{7} \text{ hundredths}$
 $\underline{3} \text{ and } \underline{8} \text{ tenths and } \underline{5} \text{ hundredths}$

b) $5.36 = 5 \text{ and } 2 \text{ tenths and } \underline{16} \text{ hundredths} = 4 \text{ and } \underline{12} \text{ tenths and } 16 \text{ hundredths}$
 $\underline{2.49} = \underline{2} \text{ and } \underline{4} \text{ tenths and } \underline{9} \text{ hundredths} = \underline{2} \text{ and } \underline{4} \text{ tenths and } \underline{9} \text{ hundredths}$
 $\underline{2} \text{ and } \underline{8} \text{ tenths and } \underline{7} \text{ hundredths}$

c) $7.24 = 7 \text{ and } 1 \text{ tenth and } \underline{14} \text{ hundredths} = 6 \text{ and } \underline{11} \text{ tenths and } \underline{14} \text{ hundredths}$
 $\underline{3.65} = \underline{3} \text{ and } \underline{6} \text{ tenths and } \underline{5} \text{ hundredths} = \underline{3} \text{ and } \underline{6} \text{ tenths and } \underline{5} \text{ hundredths}$
 $\underline{3} \text{ and } \underline{5} \text{ tenths and } \underline{9} \text{ hundredths}$

d) $4.35 = 4 \text{ and } \underline{2} \text{ tenths and } \underline{15} \text{ hundredths} = \underline{3} \text{ and } \underline{12} \text{ tenths and } \underline{15} \text{ hundredths}$
 $\underline{2.87} = \underline{2} \text{ and } \underline{8} \text{ tenths and } \underline{7} \text{ hundredths} = \underline{2} \text{ and } \underline{8} \text{ tenths and } \underline{7} \text{ hundredths}$
 $\underline{1} \text{ and } \underline{4} \text{ tenths and } \underline{8} \text{ hundredths}$

e) $8.36 = 8 \text{ and } \underline{2} \text{ tenths and } \underline{16} \text{ hundredths} = \underline{7} \text{ and } \underline{12} \text{ tenths and } \underline{16} \text{ hundredths}$
 $\underline{5.89} = \underline{5} \text{ and } \underline{8} \text{ tenths and } \underline{9} \text{ hundredths} = \underline{5} \text{ and } \underline{8} \text{ tenths and } \underline{9} \text{ hundredths}$
 $\underline{2} \text{ and } \underline{4} \text{ tenths and } \underline{7} \text{ hundredths}$

f) $8.36 = \underline{8} \text{ and } \underline{2} \text{ tenths and } \underline{16} \text{ hundredths} = \underline{7} \text{ and } \underline{12} \text{ tenths and } \underline{16} \text{ hundredths}$
 $\underline{4.58} = \underline{4} \text{ and } \underline{5} \text{ tenths and } \underline{8} \text{ hundredths} = \underline{4} \text{ and } \underline{5} \text{ tenths and } \underline{8} \text{ hundredths}$
 $\underline{3} \text{ and } \underline{7} \text{ tenths and } \underline{8} \text{ hundredths}$

g) $5.23 = \underline{5} \text{ and } \underline{1} \text{ tenths and } \underline{13} \text{ hundredths} = \underline{4} \text{ and } \underline{11} \text{ tenths and } \underline{13} \text{ hundredths}$
 $\underline{3.76} = \underline{3} \text{ and } \underline{7} \text{ tenths and } \underline{6} \text{ hundredths} = \underline{3} \text{ and } \underline{7} \text{ tenths and } \underline{6} \text{ hundredths}$
 $\underline{1} \text{ and } \underline{4} \text{ tenths and } \underline{7} \text{ hundredths}$

h) $7.28 = \underline{7} \text{ and } \underline{1} \text{ tenths and } \underline{18} \text{ hundredths} = \underline{6} \text{ and } \underline{11} \text{ tenths and } \underline{18} \text{ hundredths}$
 $\underline{3.69} = \underline{3} \text{ and } \underline{6} \text{ tenths and } \underline{9} \text{ hundredths} = \underline{3} \text{ and } \underline{6} \text{ tenths and } \underline{9} \text{ hundredths}$
 $\underline{3} \text{ and } \underline{5} \text{ tenths and } \underline{9} \text{ hundredths}$

1. Subtract.

$$\begin{array}{r} \text{a) } 7.42 \\ - 3.57 \\ \hline 3.85 \end{array}$$

Think Record
 12, 5 5
 13, 8 8
 6, 3 3

$$\begin{array}{r} \text{b) } 8.46 \\ - 3.99 \\ \hline 4.47 \end{array}$$

$$\begin{array}{r} \text{c) } 6.33 \\ - 1.65 \\ \hline 4.68 \end{array}$$

$$\begin{array}{r} \text{d) } 9.37 \\ - 5.68 \\ \hline 3.69 \end{array}$$

$$\begin{array}{r} \text{e) } 3.14 \\ - 1.28 \\ \hline 1.86 \end{array}$$

$$\begin{array}{r} \text{f) } 4.37 \\ - 1.59 \\ \hline 2.78 \end{array}$$

$$\begin{array}{r} \text{g) } 6.82 \\ - 1.99 \\ \hline 4.83 \end{array}$$

$$\begin{array}{r} \text{h) } 4.43 \\ - 2.75 \\ \hline 1.68 \end{array}$$

$$\begin{array}{r} \text{i) } 8.35 \\ - 3.67 \\ \hline 4.68 \end{array}$$

$$\begin{array}{r} \text{j) } 5.55 \\ - 1.67 \\ \hline 3.88 \end{array}$$

$$\begin{array}{r} \text{k) } 4.31 \\ - 2.47 \\ \hline 1.84 \end{array}$$

$$\begin{array}{r} \text{l) } 7.63 \\ - 4.85 \\ \hline 2.78 \end{array}$$

$$\begin{array}{r} \text{m) } 4.56 \\ - 2.67 \\ \hline 1.89 \end{array}$$

$$\begin{array}{r} \text{n) } 9.30 \\ - 3.48 \\ \hline 5.82 \end{array}$$

$$\begin{array}{r} \text{o) } 5.20 \\ - 1.47 \\ \hline 3.73 \end{array}$$

$$\begin{array}{r} \text{p) } 7.40 \\ - 5.79 \\ \hline 1.61 \end{array}$$

$$\begin{array}{r} \text{q) } 4.50 \\ - 1.83 \\ \hline 2.67 \end{array}$$

$$\begin{array}{r} \text{r) } 6.40 \\ - 3.67 \\ \hline 2.73 \end{array}$$

$$\begin{array}{r} \text{s) } 8.05 \\ - 2.36 \\ \hline 5.69 \end{array}$$

$$\begin{array}{r} \text{t) } 6.04 \\ - 3.57 \\ \hline 2.47 \end{array}$$

$$\begin{array}{r} \text{u) } 5.02 \\ - 3.33 \\ \hline 1.69 \end{array}$$

$$\begin{array}{r} \text{v) } 7.06 \\ - 3.27 \\ \hline 3.79 \end{array}$$

$$\begin{array}{r} \text{w) } 9.04 \\ - 5.55 \\ \hline 3.49 \end{array}$$



Total length: 7.53 cm
 Cut off: 2.76 cm
 How much is left?

$$\begin{array}{r} 7.53 \\ - 2.76 \\ \hline 4.77 \end{array}$$

4.77 cm is left.



Total length: 5.51 cm
 Cut off: 3.65 cm
 How much is left?

$$\begin{array}{r} 5.51 \\ - 3.65 \\ \hline 1.86 \end{array}$$

1.86 cm is left.



Total length: 6.25 cm
 Cut off: 3.79 cm
 How much is left?

$$\begin{array}{r} 6.25 \\ - 3.79 \\ \hline 2.46 \end{array}$$

2.46 cm is left.

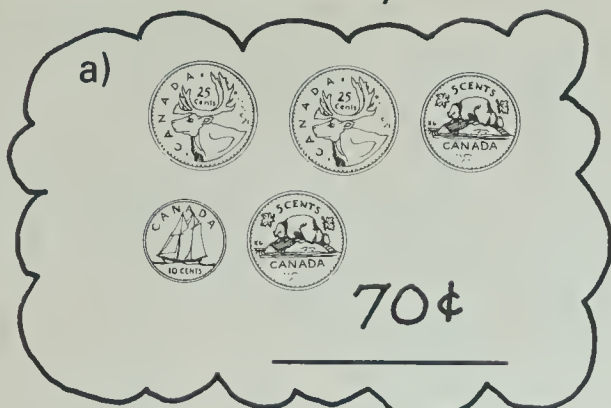


Total length: 7.24 cm
 Cut off: 4.75 cm
 How much is left?

$$\begin{array}{r} 7.24 \\ - 4.75 \\ \hline 2.49 \end{array}$$

2.49 cm is left.

1. Count the money.



2. Tell how to make:

a) 40¢ with 3 coins 1 quarter, 1 dime, 1 nickel

b) 65¢ with 4 coins 2 quarters, 1 dime, 1 nickel

c) 38¢ with 5 coins 1 quarter, 1 dime, 3 pennies

d) 89¢ with 8 coins 3 quarters, 1 dime, 4 pennies

3. What value does each underlined digit represent?

a) \$3.58 50 cents

b) \$6.40 6 dollars

c) \$16.85 5 cents

d) \$19.49

e) \$7.75 70 cents

f) \$9.99 9 cents

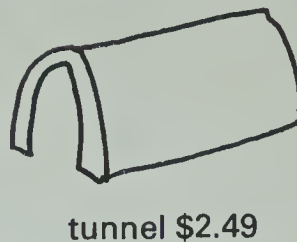
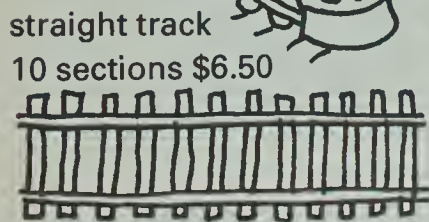
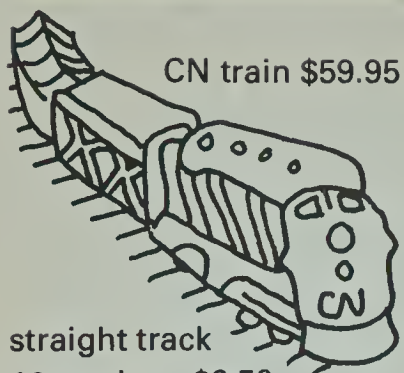
4. Complete the charts.

a)

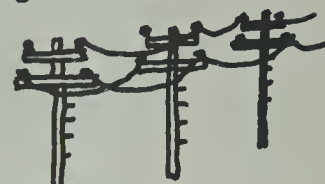
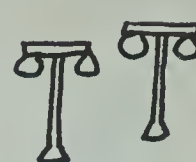
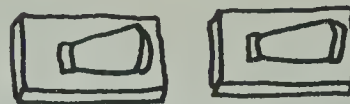
Cash	Sale	Change
\$2.00	\$1.49	\$0.51
\$1.00	\$0.75	\$0.25
\$2.00	\$1.40	\$0.60
\$4.00	\$3.55	\$0.45

b)

Cash	Sale	Change
\$4.00	\$2.43	\$1.57
\$5.50	\$3.07	\$2.43
\$12.00	\$10.68	\$1.32
\$20.00	\$10.95	\$9.05



remote control switches



1. What is the total cost for:
- | | |
|--------------------------------|----------------|
| the train | \$59.95 |
| 1 pair of switches | 19.00 |
| 10 sections of straight track? | 6.50 |
| | <u>\$85.45</u> |

The total cost is \$85.45.

2. What is the total cost for 2 pairs of remote control switches?

$$\begin{array}{r} \$19.00 \\ \times 2 \\ \hline \$38.00 \end{array}$$

The total cost is \$38.00.

3. a) What is the total cost for:

1 tunnel	\$2.49
1 pair of floodlights	2.60
6 telegraph poles?	1.98
	<u>\$7.07</u>

The total cost is \$7.07.

4. a) What is the total cost for:

the freight station	\$4.50
1 pair of switches	19.00
1 cross-over track?	10.75
	<u>\$34.25</u>

The total cost is \$34.25.

- b) What is your change from \$20.00?

$$\begin{array}{r} \$20.00 \\ 7.07 \\ \hline \$12.93 \end{array}$$

The change is \$12.93.

5. a) If you had a train and \$18.00 to spend, what would you buy?

- b) What is your change from \$50.00?

$$\begin{array}{r} \$50.00 \\ 34.25 \\ \hline \$15.75 \end{array}$$

The change is \$15.75.

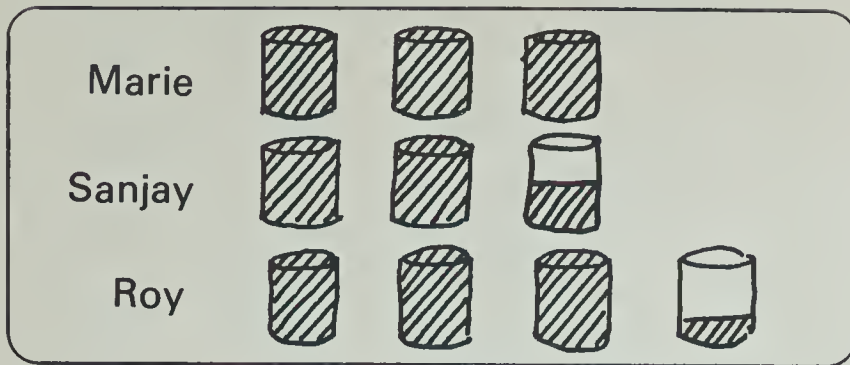
6. a) If you had a train and \$40.00 to spend, what would you buy?

Answers will vary.

- b) What is your change?

- b) What is your change?

Glasses of Water Drunk Each Day



 This represents 1 glass of water.

1. a) What is the title of the pictograph?

Glasses of water drunk each day

- b) Who drank the most water? Roy

- c) Who drank the least amount of water? Sanjay

- d) Anne drinks this much water each day.    

How much does she drink? 3 1/2 glasses

- e) Franco drinks $2\frac{1}{4}$ glasses each day.

Draw a pictograph to show how much water Franco drinks each day.



- f) Draw a pictograph to show how much water you drink each day.

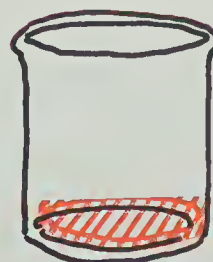
answers will vary

2. Shade each glass to illustrate the fraction.

- a) $\frac{1}{2}$ glass



- b) $\frac{1}{4}$ glass



- c) $\frac{3}{4}$ glass



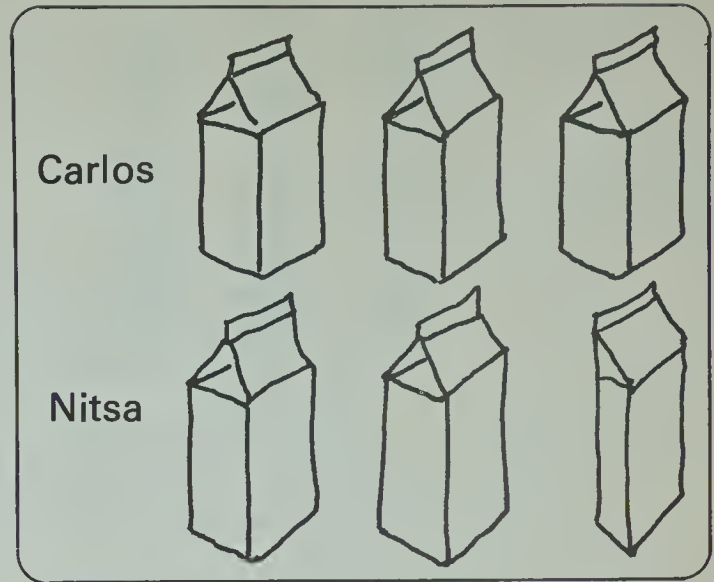
1. This  represents 2 L of milk.

How many litres of milk were drunk by each child?

a) Carlos 3 L

b) Nitsa 2.5 L

Milk Drunk in 1 Week



2. This  represents 4 people.

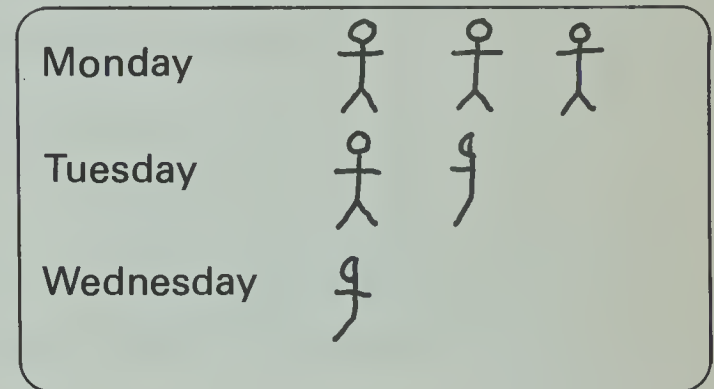
How many people drank at the water fountain

a) on Monday? 12

b) on Tuesday? 6

c) on Wednesday? 2

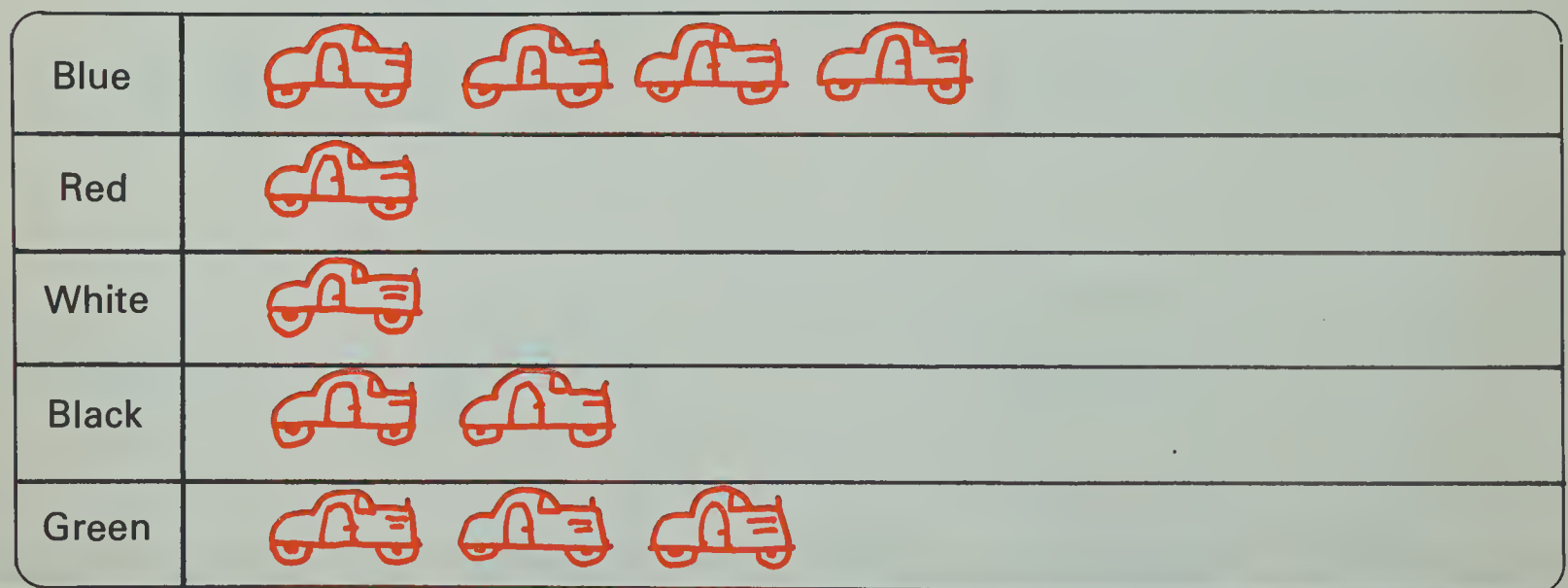
Number of People that Drank at the Fountain



3. Draw a pictograph for this information. Let this symbol  represent 2 cars.

Colours of Cars in a Parking Lot

Colour	Blue	Red	White	Black	Green
Number of cars	8	2	2	4	6



1. Complete the chart for the arrays.

a) $\begin{array}{cccc} x & x & x & x \\ x & x & x & x \\ x & x & x & x \end{array}$

b) $\begin{array}{cccccc} x & x & x & x & x & x \\ x & x & x & x & x & x \end{array}$

c) $\begin{array}{ccccc} x & x & x & x & x \\ x & x & x & x & x \\ x & x & x & x & x \\ x & x & x & x & x \\ x & x & x & x & x \end{array}$

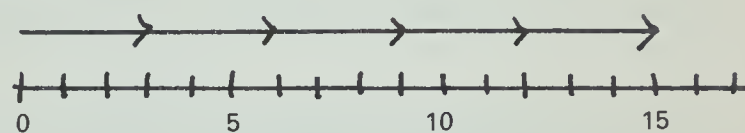
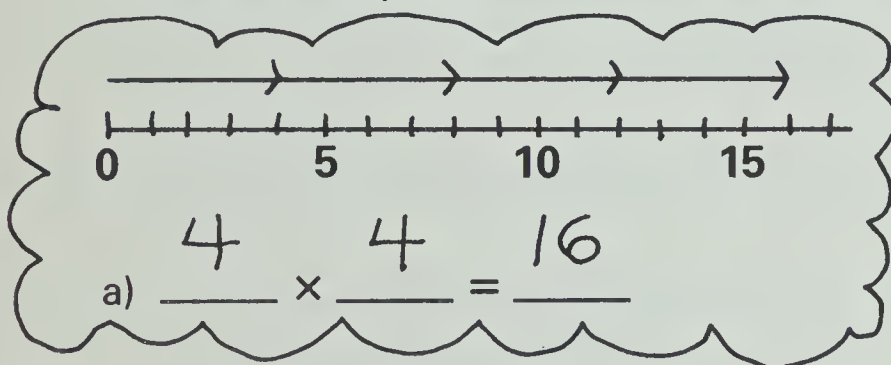
d) $\begin{array}{cccccccc} x & x & x & x & x & x & x & x \\ x & x & x & x & x & x & x & x \\ x & x & x & x & x & x & x & x \\ x & x & x & x & x & x & x & x \\ x & x & x & x & x & x & x & x \end{array}$

e) $\begin{array}{cccccc} x & x & x & x & x & x \\ x & x & x & x & x & x \\ x & x & x & x & x & x \end{array}$

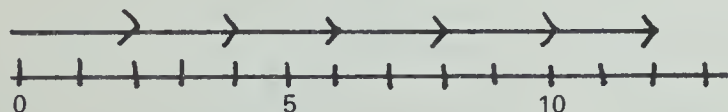
f) $\begin{array}{cccccccc} x & x & x & x & x & x & x & x \end{array}$

Array	Number of rows	Number of columns	Factors	Product	Multiplication sentence	Number pair
a)	3	4	3, 4	12	$3 \times 4 = 12$	(3, 4)
b)	2	7	2, 7	14	$2 \times 7 = 14$	(2, 7)
c)	5	5	5, 5	25	$5 \times 5 = 25$	(5, 5)
d)	5	10	5, 10	50	$5 \times 10 = 50$	(5, 10)
e)	3	9	3, 9	27	$3 \times 9 = 27$	(3, 9)
f)	1	8	1, 8	8	$1 \times 8 = 8$	(1, 8)

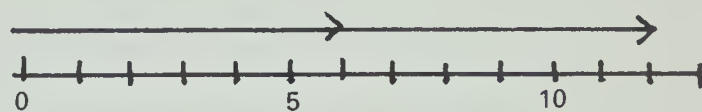
2. Write the multiplication sentence for each number line.



b) $3 \times 5 = 15$



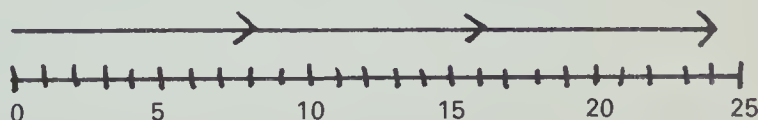
c) $6 \times 2 = 12$



d) $2 \times 6 = 12$



e) $2 \times 3 = 6$



f) $3 \times 8 = 24$

1. Write the first 6 multiples of 5.

Think 0×5 1×5 2×5 3×5 4×5 5×5

0, 5, 10, 15, 20, 25

2. Write the first 7 multiples of 8.

Think 0×8 1×8 2×8 3×8 4×8 5×8 6×8

0, 8, 16, 24, 32, 40, 48

3. Write the multiples of 4 that are greater than 15 and less than 37.

Think 4×4 5×4 6×4 7×4 8×4 9×4

16, 20, 24, 28, 32, 36

4. List the multiples of:

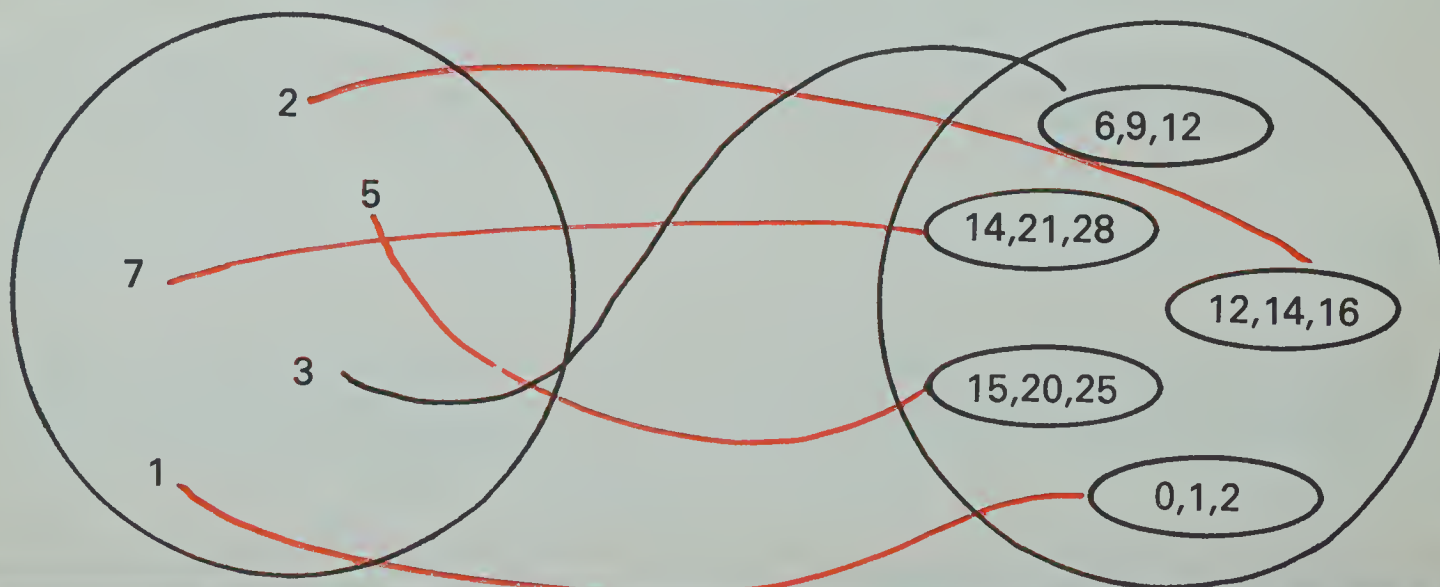
a) 10, between 39 and 75 40, 50, 60, 70

b) 6, between 7 and 49 12 18 24 30 36 42 48

c) 5, between 38 and 67 40 45 50 55 60 65

d) 9, between 25 and 64 27 36 45 54 63

5. Match.



1. Write the products.

$$\begin{array}{l} \text{a) } 3 \times 6 = \underline{18} \\ 3 \times 60 = \underline{180} \end{array}$$

$$\begin{array}{l} \text{b) } 4 \times 3 = \underline{12} \\ 4 \times 30 = \underline{120} \end{array}$$

$$\begin{array}{l} \text{c) } 5 \times 1 = \underline{5} \\ 5 \times 10 = \underline{50} \end{array}$$

$$\begin{array}{l} \text{d) } 2 \times 7 = \underline{14} \\ 2 \times 70 = \underline{140} \end{array}$$

$$\begin{array}{l} \text{e) } 7 \times 1 = \underline{7} \\ 7 \times 10 = \underline{70} \end{array}$$

$$\begin{array}{l} \text{f) } 3 \times 5 = \underline{15} \\ 3 \times 50 = \underline{150} \end{array}$$

$$\begin{array}{l} \text{g) } 8 \times 2 = \underline{16} \\ 8 \times 20 = \underline{160} \end{array}$$

$$\begin{array}{l} \text{h) } 6 \times 4 = \underline{24} \\ 6 \times 40 = \underline{240} \end{array}$$

$$\begin{array}{l} \text{i) } 9 \times 3 = \underline{27} \\ 9 \times 30 = \underline{270} \end{array}$$

$$\begin{array}{l} \text{j) } 5 \times 5 = \underline{25} \\ 5 \times 50 = \underline{250} \end{array}$$

$$\begin{array}{l} \text{k) } 7 \times 6 = \underline{42} \\ 7 \times 60 = \underline{420} \end{array}$$

$$\begin{array}{l} \text{l) } 8 \times 3 = \underline{24} \\ 8 \times 30 = \underline{240} \end{array}$$

2. Estimate, then find the product.

$$\begin{array}{l} \text{a) } 42 \times 7 \\ \text{Estimate:} \\ 42 \times 7 \text{ is about } \underline{40} \times 7 \text{ or } \underline{280} \\ 42 \times 7 = \begin{array}{r} 40 \\ + 2 \\ \hline 7 \end{array} \end{array}$$

$$\underline{280} + \underline{14} = \underline{294}$$

The estimate is close to the answer.

$$\begin{array}{l} \text{b) } 29 \times 8 \\ \text{Estimate:} \\ 29 \times 8 \text{ is about } \underline{30} \times 8 \text{ or } \underline{240} \\ 29 \times 8 = \begin{array}{r} 20 \\ + 9 \\ \hline 8 \end{array} \end{array}$$

$$\underline{160} + \underline{72} = \underline{232}$$

$$\begin{array}{l} \text{c) } 61 \times 5 \\ \text{Estimate:} \\ 61 \times 5 \text{ is about } \underline{60} \times 5 \text{ or } \underline{300} \\ 61 \times 5 = \begin{array}{r} 60 \\ + 1 \\ \hline 5 \end{array} \end{array}$$

$$\underline{300} + \underline{5} = \underline{305}$$

$$\begin{array}{l} \text{d) } 43 \times 5 \\ \text{Estimate:} \\ 43 \times 5 \text{ is about } \underline{40} \times 5 \text{ or } \underline{200} \\ 43 \times 5 = \begin{array}{r} 40 \\ + 3 \\ \hline 5 \end{array} \end{array}$$

$$\underline{200} + \underline{15} = \underline{215}$$

$$\begin{array}{l} \text{e) } 38 \times 6 \\ \text{Estimate:} \\ 38 \times 6 \text{ is about } \underline{40} \times 6 \text{ or } \underline{240} \\ 38 \times 6 = \begin{array}{r} 30 \\ + 8 \\ \hline 6 \end{array} \end{array}$$

$$\underline{180} + \underline{48} = \underline{228}$$

$$\begin{array}{l} \text{f) } 76 \times 8 \\ \text{Estimate:} \\ 76 \times 8 \text{ is about } \underline{80} \times 8 \text{ or } \underline{640} \\ 76 \times 8 = \begin{array}{r} 70 \\ + 6 \\ \hline 8 \end{array} \end{array}$$

$$\underline{560} + \underline{48} = \underline{608}$$

1. Estimate, then find the product.

a) 46×7

Estimate:

 46×7 is about50 $\times 7$ or 350

$$\begin{array}{r} 46 \\ 7 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \quad 6 \times 7 \\ 280 \quad 40 \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 280 \\ 42 \\ \hline \end{array}$$

$$\begin{array}{r} 322 \end{array}$$

The estimate is close to the answer.

b) 39×5

Estimate:

 39×5 is about40 $\times 5$ or 200

$$\begin{array}{r} 39 \\ 5 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ 150 \\ \hline \end{array}$$

$$\begin{array}{r} 150 \\ 45 \\ \hline \end{array}$$

$$\begin{array}{r} 195 \end{array}$$

c) 32×8

Estimate:

 32×8 is about35 $\times 8$ or 280

$$\begin{array}{r} 32 \\ 8 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ 240 \\ \hline \end{array}$$

$$\begin{array}{r} 240 \\ 32 \\ \hline \end{array}$$

$$\begin{array}{r} 256 \end{array}$$

d) 51×9

Estimate:

 51×9 is about50 $\times 9$ or 450

$$\begin{array}{r} 51 \\ 9 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ 450 \\ \hline \end{array}$$

$$\begin{array}{r} 450 \\ 51 \\ \hline \end{array}$$

$$\begin{array}{r} 459 \end{array}$$

e) 68×4

Estimate:

 68×4 is about70 $\times 4$ or 280

$$\begin{array}{r} 68 \\ 4 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \\ 240 \\ \hline \end{array}$$

$$\begin{array}{r} 240 \\ 68 \\ \hline \end{array}$$

$$\begin{array}{r} 272 \end{array}$$

f) 42×8

Estimate:

 42×8 is about40 $\times 8$ or 320

$$\begin{array}{r} 42 \\ 8 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ 320 \\ \hline \end{array}$$

$$\begin{array}{r} 320 \\ 42 \\ \hline \end{array}$$

$$\begin{array}{r} 336 \end{array}$$

g) 29×9

Estimate:

 29×9 is about30 $\times 9$ or 270

$$\begin{array}{r} 29 \\ 9 \\ \hline \end{array}$$

$$\begin{array}{r} 81 \\ 180 \\ \hline \end{array}$$

$$\begin{array}{r} 180 \\ 29 \\ \hline \end{array}$$

$$\begin{array}{r} 261 \end{array}$$

h) 71×5

Estimate:

 71×5 is about70 $\times 5$ or 350

$$\begin{array}{r} 71 \\ 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ 350 \\ \hline \end{array}$$

$$\begin{array}{r} 350 \\ 71 \\ \hline \end{array}$$

$$\begin{array}{r} 355 \end{array}$$

i) 57×7

Estimate:

 57×7 is about60 $\times 7$ or 420

$$\begin{array}{r} 57 \\ 7 \\ \hline \end{array}$$

$$\begin{array}{r} 49 \\ 350 \\ \hline \end{array}$$

$$\begin{array}{r} 350 \\ 57 \\ \hline \end{array}$$

$$\begin{array}{r} 399 \end{array}$$

j) 82×3

Estimate:

 82×3 is about80 $\times 3$ or 240

$$\begin{array}{r} 82 \\ 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ 240 \\ \hline \end{array}$$

$$\begin{array}{r} 240 \\ 82 \\ \hline \end{array}$$

$$\begin{array}{r} 246 \end{array}$$

1. Estimate, then find the product.

a) 42×6

$$\begin{array}{r} 42 \\ \times 6 \\ \hline 252 \end{array}$$

Think Record

12	2
24, 25	25

Estimate:

 42×6 is about

40 $\times$ 6 or 240

The estimate is close to the answer.

b) 59×4

$$\begin{array}{r} 59 \\ \times 4 \\ \hline 236 \end{array}$$

Estimate:

 59×4 is about

60 $\times$ 4 or 240

c) 38×9

$$\begin{array}{r} 38 \\ \times 9 \\ \hline 342 \end{array}$$

Estimate:

 38×9 is about

40 $\times$ 9 or 360

d) 67×2

$$\begin{array}{r} 67 \\ \times 2 \\ \hline 134 \end{array}$$

Estimate:

 67×2 is about

70 $\times$ 2 or 140

e) 51×8

$$\begin{array}{r} 51 \\ \times 8 \\ \hline 408 \end{array}$$

Estimate:

 51×8 is about

50 $\times$ 8 or 400

f) 33×7

$$\begin{array}{r} 33 \\ \times 7 \\ \hline 231 \end{array}$$

Estimate:

 33×7 is about

_____ $\times$ _____ or _____

g) 63×6

$$\begin{array}{r} 63 \\ \times 6 \\ \hline 378 \end{array}$$

Estimate:

 63×6 is about

60 $\times$ 6 or 360

h) 49×5

$$\begin{array}{r} 49 \\ \times 5 \\ \hline 245 \end{array}$$

Estimate:

 49×5 is about

50 $\times$ 5 or 250

2. Multiply. Check your work by estimating the product.

$$\begin{array}{r} 185 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 464 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 186 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 352 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 316 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 637 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 325 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 318 \\ \times 6 \\ \hline \end{array}$$

1. Complete the chart for the arrays.

a) $\begin{array}{cccccc} x & x & x & x & x & x \\ x & x & x & x & x & x \\ x & x & x & x & x & x \end{array}$

b) $\begin{array}{cccccc} x & x & x & x & x & x \\ x & x & x & x & x & x \\ x & x & x & x & x & x \\ x & x & x & x & x & x \end{array}$

c) $\begin{array}{cccccccccc} x & x & x & x & x & x & x & x & x & x \\ x & x & x & x & x & x & x & x & x & x \\ x & x & x & x & x & x & x & x & x & x \\ x & x & x & x & x & x & x & x & x & x \end{array}$

d) $\begin{array}{ccc} x & x & x \\ x & x & x \\ x & x & x \\ x & x & x \\ x & x & x \\ x & x & x \\ x & x & x \end{array}$

e) $\begin{array}{cccccccccc} x & x & x & x & x & x & x & x & x & x \\ x & x & x & x & x & x & x & x & x & x \end{array}$

f) $\begin{array}{ccccc} x & x & x & x & x \\ x & x & x & x & x \end{array}$

Array	Number of rows	Number of columns	Multiplication sentence	Division sentence	Division sentence	Number pairs
a)	3	6	$3 \times 6 = 18$	$18 \div 3 = 6$	$18 \div 6 = 3$	$(18, 3)(18, 6)$
b)	4	5	$4 \times 5 = 20$	$20 \div 4 = 5$	$20 \div 5 = 4$	$(20, 4)(20, 5)$
c)	4	9	$4 \times 9 = 36$	$36 \div 4 = 9$	$36 \div 9 = 4$	$(36, 4)(36, 9)$
d)	7	3	$7 \times 3 = 21$	$21 \div 7 = 3$	$21 \div 3 = 7$	$(21, 7)(21, 3)$
e)	2	9	$2 \times 9 = 18$	$18 \div 9 = 2$	$18 \div 2 = 9$	$(18, 2)(18, 9)$
f)	2	5	$2 \times 5 = 10$	$10 \div 2 = 5$	$10 \div 5 = 2$	$(10, 2)(10, 5)$

2. Write a division sentence for each number pair.

a) $(24, 6)$ $24 \div 6 = 4$

b) $(30, 5)$ $30 \div 5 = 6$

c) $(48, 6)$ $48 \div 6 = 8$

d) $(72, 8)$ $72 \div 8 = 9$

e) $(56, 7)$ $56 \div 7 = 8$

f) $(54, 9)$ $54 \div 9 = 6$

g) $(64, 8)$ $64 \div 8 = 8$

h) $(45, 5)$ $45 \div 5 = 9$

i) $(81, 9)$ $81 \div 9 = 9$

3. Write 2 division sentences for each multiplication sentence.

a) $6 \times 9 = 54$

$54 \div 6 = 9$

$54 \div 9 = 6$

b) $8 \times 7 = 56$

$56 \div 8 = 7$

$56 \div 7 = 8$

c) $7 \times 9 = 63$

$63 \div 7 = 9$

$63 \div 9 = 7$

d) $8 \times 4 = 32$

$32 \div 8 = 4$

$32 \div 4 = 8$

e) $5 \times 9 = 45$

$45 \div 5 = 9$

$45 \div 9 = 5$

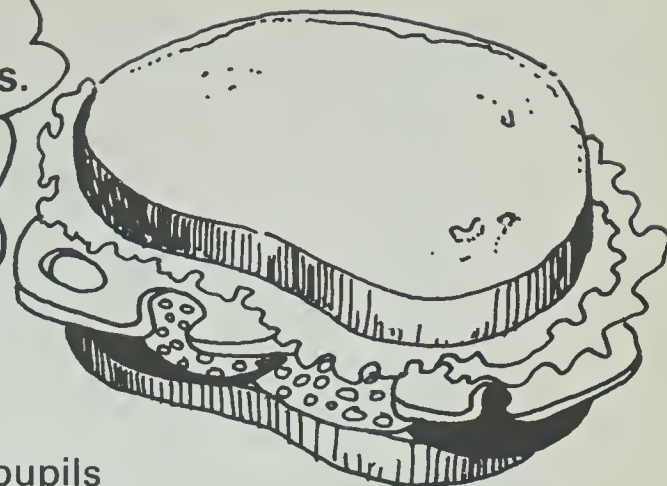
f) $3 \times 7 = 21$

$21 \div 3 = 7$

$21 \div 7 = 3$

1. 5 slices of cheese in a package
10 slices of cheese are needed for sandwiches.
How many packages of cheese are needed?

$10 \div 5 = 2$
2 packages are needed.



2. 24 slices of bread in 1 loaf
4 slices for each pupil
How many pupils can make their sandwiches from 1 loaf?

6 pupils

3. 30 pupils
4 slices of bread per pupil
How many slices of bread are needed?

120 slices

4. 14 pupils want salami sandwiches.
Each needs 2 salami sandwiches.
How many salami sandwiches are required?

28 sandwiches

5. 4 slices of salami are required for 1 sandwich.
How many slices are required for 14 sandwiches?

56 slices

6. 2 sandwiches are packed in 1 bag.
How many bags will be required for 60 sandwiches?

30 bags

7. There are 8 egg sandwiches.
2 egg sandwiches are packed in 1 bag.
How many bags will contain egg sandwiches?

4 bags

8. 5 slices of ham in a package
20 slices of ham are needed.
How many packages of ham are required?

4 packages

9. 9 pupils chose cookies.
Each receives 3 cookies.
How many cookies are needed?

27 cookies

1. Complete the division.

$$\begin{array}{r} 3 \overline{) 42} \\ \underline{30} \\ 12 \\ \underline{12} \\ 0 \end{array} \quad \begin{array}{r} 10 \\ 4 \\ \hline 14 \end{array}$$

Think
How many threes in 42?
At least 10 because $10 \times 3 = 30$
 $42 - 30 = 12$
How many threes in 12?

$$\begin{array}{r} 4 \overline{) 60} \\ \underline{40} \\ 20 \\ \underline{20} \\ 0 \end{array} \quad \begin{array}{r} 10 \\ 5 \\ \hline 15 \end{array}$$

How many fours in 60? How many fours in 20?

$$\begin{array}{r} 5 \overline{) 60} \\ \underline{50} \\ 10 \\ \underline{10} \\ 0 \end{array} \quad \begin{array}{r} 10 \\ 2 \\ \hline 12 \end{array}$$

How many fives in 60? How many fives in 10?

$$\begin{array}{r} 3 \overline{) 51} \\ \underline{30} \\ 21 \\ \underline{21} \\ 0 \end{array} \quad \begin{array}{r} 10 \\ 7 \\ \hline 17 \end{array}$$

How many threes in 51? How many threes in 21?

2. Complete the division.

$$\begin{array}{r} 5 \overline{) 55} \\ \underline{50} \\ 5 \\ \underline{5} \\ 0 \end{array} \quad \begin{array}{r} 10 \\ 1 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 3 \overline{) 48} \\ \underline{30} \\ 18 \\ \underline{18} \\ 0 \end{array} \quad \begin{array}{r} 10 \\ 6 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 8 \overline{) 96} \\ \underline{80} \\ 16 \\ \underline{16} \\ 0 \end{array} \quad \begin{array}{r} 10 \\ 2 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 6 \overline{) 72} \\ \underline{60} \\ 12 \\ \underline{12} \\ 0 \end{array} \quad \begin{array}{r} 10 \\ 2 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 4 \overline{) 56} \\ \underline{40} \\ 16 \\ \underline{16} \\ 0 \end{array} \quad \begin{array}{r} 10 \\ 4 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 5 \overline{) 60} \\ \underline{50} \\ 10 \\ \underline{10} \\ 0 \end{array} \quad \begin{array}{r} 10 \\ 2 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 7 \overline{) 77} \\ \underline{70} \\ 7 \\ \underline{7} \\ 0 \end{array} \quad \begin{array}{r} 10 \\ 1 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 3 \overline{) 54} \\ \underline{30} \\ 24 \\ \underline{24} \\ 0 \end{array} \quad \begin{array}{r} 10 \\ 8 \\ \hline 18 \end{array}$$

3. Complete.

$$\begin{array}{r} 2 \overline{) 32} \\ \underline{20} \\ 12 \\ \underline{12} \\ 0 \end{array} \quad \begin{array}{r} 10 \\ 6 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 4 \overline{) 52} \\ \underline{40} \\ 12 \\ \underline{12} \\ 0 \end{array} \quad \begin{array}{r} 10 \\ 3 \\ \hline 13 \end{array}$$

$$\begin{array}{r} 5 \overline{) 70} \\ \underline{50} \\ 20 \\ \underline{20} \\ 0 \end{array} \quad \begin{array}{r} 10 \\ 4 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 6 \overline{) 66} \\ \underline{60} \\ 6 \\ \underline{6} \\ 0 \end{array} \quad \begin{array}{r} 10 \\ 1 \\ \hline 11 \end{array}$$

1. Complete the division.

$$\begin{array}{r} 3 \overline{) 43} \\ \underline{30} 10 \\ 13 \\ \underline{12} 4 \\ \underline{1} 14 \end{array}$$

remainder

$$43 \div 3 = \underline{14R1}$$

How many threes in 43?
At least 10.
How many threes in 13?
At least 4
There is a remainder of 1.

$$\begin{array}{r} 4 \overline{) 38} \\ \underline{36} 9 \\ \underline{2} 9 \end{array}$$

$$38 \div 4 = \underline{9R2}$$

$$\begin{array}{r} 3 \overline{) 47} \\ \underline{30} 10 \\ 17 \\ \underline{15} 5 \\ \underline{2} 15 \end{array}$$

$$47 \div 3 = \underline{15R2}$$

$$\begin{array}{r} 4 \overline{) 62} \\ \underline{40} 10 \\ 22 \\ \underline{20} 5 \\ \underline{2} 15 \end{array}$$

$$62 \div 4 = \underline{15R2}$$

$$\begin{array}{r} 5 \overline{) 63} \\ \underline{50} 10 \\ 13 \\ \underline{10} 2 \\ \underline{3} 12 \end{array}$$

$$63 \div 5 = \underline{12R3}$$

$$\begin{array}{r} 3 \overline{) 52} \\ \underline{30} 10 \\ 22 \\ \underline{21} 7 \\ \underline{1} 17 \end{array}$$

$$52 \div 3 = \underline{17R1}$$

$$\begin{array}{r} 5 \overline{) 58} \\ \underline{50} 10 \\ 8 \\ \underline{5} 1 \\ \underline{3} 11 \end{array}$$

$$58 \div 5 = \underline{11R3}$$

$$\begin{array}{r} 3 \overline{) 49} \\ \underline{30} 10 \\ 19 \\ \underline{18} 6 \\ \underline{1} 16 \end{array}$$

$$49 \div 3 = \underline{16R1}$$

2. Complete.

$$\begin{array}{r} 8 \overline{) 99} \\ \underline{80} 10 \\ 19 \\ \underline{16} 2 \\ \underline{3} 12, 12R3 \end{array}$$

$$\begin{array}{r} 6 \overline{) 75} \\ \underline{60} 10 \\ 15 \\ \underline{12} 2 \\ \underline{3} 12, 12R3 \end{array}$$

$$\begin{array}{r} 4 \overline{) 59} \\ \underline{40} 10 \\ 19 \\ \underline{16} 4 \\ \underline{3} 14, 14R3 \end{array}$$

$$\begin{array}{r} 7 \overline{) 79} \\ \underline{70} 10 \\ 9 \\ \underline{7} 1 \\ \underline{2} 11, 11R2 \end{array}$$

$$\begin{array}{r} 3 \overline{) 44} \\ \underline{30} 10 \\ 14 \\ \underline{12} 4 \\ \underline{2} 14, 14R2 \end{array}$$

$$\begin{array}{r} 2 \overline{) 33} \\ \underline{20} 10 \\ 13 \\ \underline{12} 6 \\ \underline{1} 16, 16R1 \end{array}$$

1. Complete the division.

a) $3 \overline{) 84}$

$$\begin{array}{r} 30 \\ \hline 54 \\ 30 \\ \hline 24 \\ 24 \\ \hline 0 \end{array} \quad \begin{array}{l} 10 \\ 10 \\ 8 \end{array}$$

$$\begin{array}{r} 54 \\ 30 \\ \hline 24 \\ 24 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 30 \\ 30 \\ \hline 24 \\ 24 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 24 \\ 24 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 24 \\ 24 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 0 \\ 28 \end{array}$$

$$84 \div 3 = 28$$

How many threes in 84?

At least 10.

How many threes in 54?

At least 10.

How many threes in 24?

Exactly 8.

b) $4 \overline{) 92}$

$$\begin{array}{r} 40 \\ \hline 52 \\ 40 \\ \hline 12 \\ 12 \\ \hline 0 \end{array} \quad \begin{array}{l} 10 \\ 10 \\ 3 \\ 23 \end{array}$$

$$\begin{array}{r} 52 \\ 40 \\ \hline 12 \\ 12 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 40 \\ 40 \\ \hline 12 \\ 12 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 12 \\ 12 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 12 \\ 12 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 0 \\ 23 \end{array}$$

How many fours in 92?

How many fours in 52?

How many fours in 12?

c) $3 \overline{) 72}$

$$\begin{array}{r} 30 \\ \hline 42 \\ 30 \\ \hline 12 \\ 12 \\ \hline 0 \end{array} \quad \begin{array}{l} 10 \\ 10 \\ 4 \\ 24 \end{array}$$

$$\begin{array}{r} 42 \\ 30 \\ \hline 12 \\ 12 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 30 \\ 30 \\ \hline 12 \\ 12 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 12 \\ 12 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 12 \\ 12 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 0 \\ 24 \end{array}$$

How many threes in 72?

How many threes in 42?

How many threes in 12?

d) $2 \overline{) 46}$

$$\begin{array}{r} 20 \\ \hline 26 \\ 20 \\ \hline 6 \\ 6 \\ \hline 0 \end{array} \quad \begin{array}{l} 10 \\ 10 \\ 3 \\ 23 \end{array}$$

$$\begin{array}{r} 26 \\ 20 \\ \hline 6 \\ 6 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 20 \\ 20 \\ \hline 6 \\ 6 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 6 \\ 6 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 6 \\ 6 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 0 \\ 23 \end{array}$$

How many twos in 46?

How many twos in 26?

How many twos in 6?

2. Complete.

a) $5 \overline{) 110}$

$$\begin{array}{r} 50 \\ \hline 60 \\ 50 \\ \hline 10 \\ 10 \\ \hline 0 \end{array} \quad \begin{array}{l} 10 \\ 10 \\ 2 \\ 22 \end{array}$$

$$\begin{array}{r} 60 \\ 50 \\ \hline 10 \\ 10 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 50 \\ 50 \\ \hline 10 \\ 10 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 10 \\ 10 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 10 \\ 10 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 0 \\ 22 \end{array}$$

b) $4 \overline{) 84}$

$$\begin{array}{r} 40 \\ \hline 44 \\ 40 \\ \hline 4 \\ 4 \\ \hline 0 \end{array} \quad \begin{array}{l} 10 \\ 10 \\ 1 \\ 21 \end{array}$$

$$\begin{array}{r} 44 \\ 40 \\ \hline 4 \\ 4 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 40 \\ 40 \\ \hline 4 \\ 4 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 4 \\ 4 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 4 \\ 4 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 0 \\ 21 \end{array}$$

c) $6 \overline{) 126}$

$$\begin{array}{r} 60 \\ \hline 66 \\ 60 \\ \hline 6 \\ 6 \\ \hline 0 \end{array} \quad \begin{array}{l} 10 \\ 10 \\ 1 \\ 21 \end{array}$$

$$\begin{array}{r} 66 \\ 60 \\ \hline 6 \\ 6 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 60 \\ 60 \\ \hline 6 \\ 6 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 6 \\ 6 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 6 \\ 6 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 0 \\ 21 \end{array}$$

d) $3 \overline{) 75}$

$$\begin{array}{r} 30 \\ \hline 45 \\ 30 \\ \hline 15 \\ 15 \\ \hline 0 \end{array} \quad \begin{array}{l} 10 \\ 10 \\ 5 \\ 25 \end{array}$$

$$\begin{array}{r} 45 \\ 30 \\ \hline 15 \\ 15 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 30 \\ 30 \\ \hline 15 \\ 15 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 15 \\ 15 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 15 \\ 15 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 0 \\ 25 \end{array}$$

e) $4 \overline{) 88}$

$$\begin{array}{r} 40 \\ \hline 48 \\ 40 \\ \hline 8 \\ 8 \\ \hline 0 \end{array} \quad \begin{array}{l} 10 \\ 10 \\ 2 \\ 22 \end{array}$$

$$\begin{array}{r} 48 \\ 40 \\ \hline 8 \\ 8 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 40 \\ 40 \\ \hline 8 \\ 8 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 8 \\ 8 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 8 \\ 8 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 0 \\ 22 \end{array}$$

f) $5 \overline{) 125}$

$$\begin{array}{r} 50 \\ \hline 75 \\ 50 \\ \hline 25 \\ 25 \\ \hline 0 \end{array} \quad \begin{array}{l} 10 \\ 10 \\ 5 \\ 25 \end{array}$$

$$\begin{array}{r} 75 \\ 50 \\ \hline 25 \\ 25 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 50 \\ 50 \\ \hline 25 \\ 25 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 25 \\ 25 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 25 \\ 25 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 0 \\ 25 \end{array}$$

g) $7 \overline{) 154}$

$$\begin{array}{r} 70 \\ \hline 84 \\ 70 \\ \hline 14 \\ 14 \\ \hline 0 \end{array} \quad \begin{array}{l} 10 \\ 10 \\ 2 \\ 22 \end{array}$$

$$\begin{array}{r} 84 \\ 70 \\ \hline 14 \\ 14 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 70 \\ 70 \\ \hline 14 \\ 14 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 14 \\ 14 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 14 \\ 14 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 0 \\ 22 \end{array}$$

h) $6 \overline{) 156}$

$$\begin{array}{r} 60 \\ \hline 96 \\ 60 \\ \hline 36 \\ 36 \\ \hline 0 \end{array} \quad \begin{array}{l} 10 \\ 10 \\ 6 \\ 26 \end{array}$$

$$\begin{array}{r} 96 \\ 60 \\ \hline 36 \\ 36 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 60 \\ 60 \\ \hline 36 \\ 36 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 36 \\ 36 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 36 \\ 36 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 0 \\ 26 \end{array}$$

1. Complete the division.

a) $2 \overline{) 48}$

20	10
28	
20	10
8	
0	4
0	24

b) $2 \overline{) 50}$

20	10
30	
20	10
10	
10	5
0	25

c) $3 \overline{) 66}$

30	10
36	
30	10
6	
6	2
0	22

d) $5 \overline{) 110}$

50	10
60	
50	10
10	
10	2
0	22

2. Complete.

a) $3 \overline{) 72}$

30	
42	
30	
12	
12	
	24

b) $4 \overline{) 92}$

40	
52	
40	
12	
12	
	23

c) $7 \overline{) 161}$

70	
91	
70	
21	
21	
	23

d) $5 \overline{) 105}$

50	
55	
50	
5	
5	
	21

3. Divide.

a) 87 by 4

4	87	
40	10	
47		
40	10	
7		
4	1	
3	21	

$87 \div 4 = 21 R3$

b) 47 by 2

2	47	
20	10	
27		
20	10	
7		
6	3	
1	23	

$47 \div 2 = 23 R1$

c) 113 by 5

5	113	
50	10	
63		
50	10	
13		
10	2	
3	22	

$113 \div 5 = 22 R3$

d) 87 by 3

3	87	
30	10	
57		
30	10	
27		
27	9	
0	29	

$87 \div 3 = 29$

e) 124 by 5

5	124	
50	10	
74		
50	10	
24		
20	4	
4	24	

$124 \div 5 = 24 R4$

f) 91 by 4

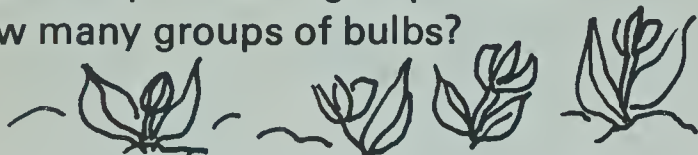
4	91	
40	10	
51		
40	10	
11		
8	2	
3	22	

$91 \div 4 = 22 R3$

1. There are 20 tulip bulbs in a row.
There are 6 rows of tulips.
How many tulip bulbs?

20 (tulips) by 6 (rows)
 $20 \times 6 = 120$
There are 120 tulip bulbs.

2. There are 60 crocus bulbs in a box.
Bulbs are planted in groups of 6.
How many groups of bulbs?



$$60 \div 6 = 10$$

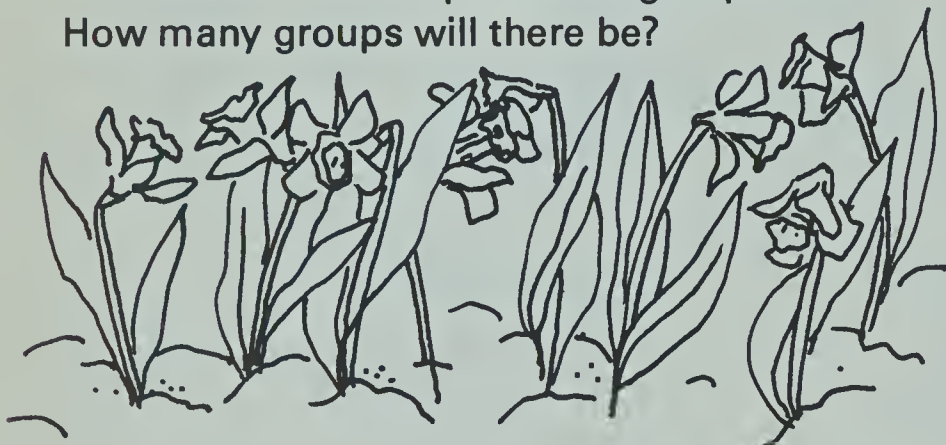
There are 10 groups of bulbs.

3. You decide to plant 24 boxes of daffodils.
There are 6 daffodils in a box.
How many daffodils will you plant?

$$24 \times 6 = 144$$

You will plant 144 daffodils.

4. 144 daffodils will be planted in groups of 8.
How many groups will there be?



$$144 \div 8 = 18$$

There will be 18 groups.

5. 300 snowdrops will be planted on the lawn.
If there are 10 snowdrops in a box, how many boxes will be needed?

$$300 \div 10 = 30$$

30 boxes will be needed.

6. 1 bag of new soil covers 3 flowerbeds.
How many bags will be required to cover 69 flowerbeds?



$$69 \div 3 = 23$$

23 bags will be required.

1. Complete the chart.  is 1 cm^2 .

Shape	Length (cm)	Width (cm)	Area (cm^2)
a)	4	2	8
b)	7	2	14
c)	5	3	15
d)	6	5	30
e)	11	3	33
f)	6	6	36
g)	7	1	7
h)	10	4	40
i)	14	1	14

a)



b)



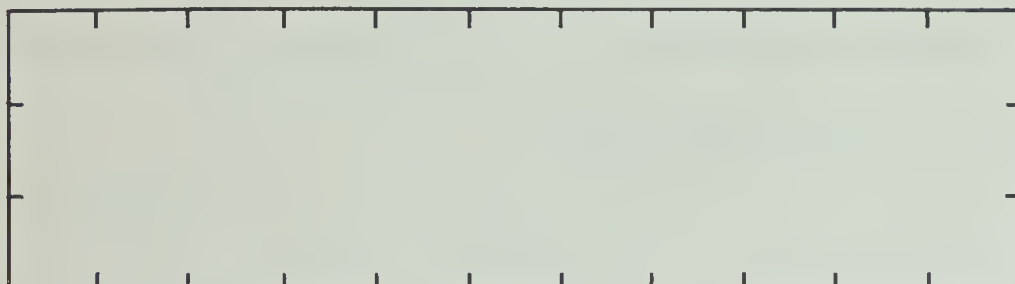
c)



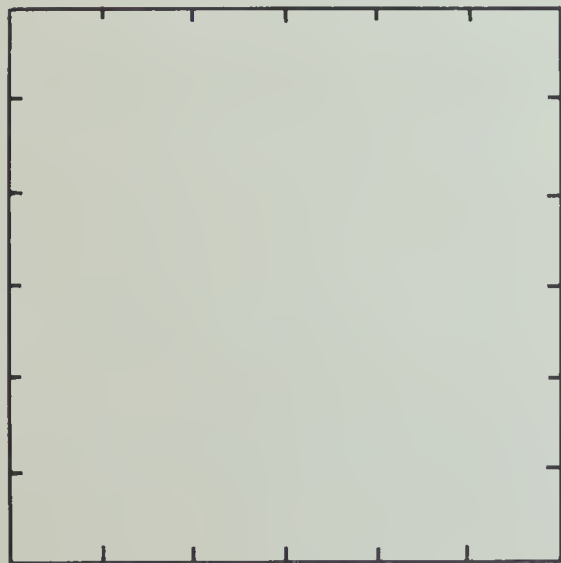
d)



e)



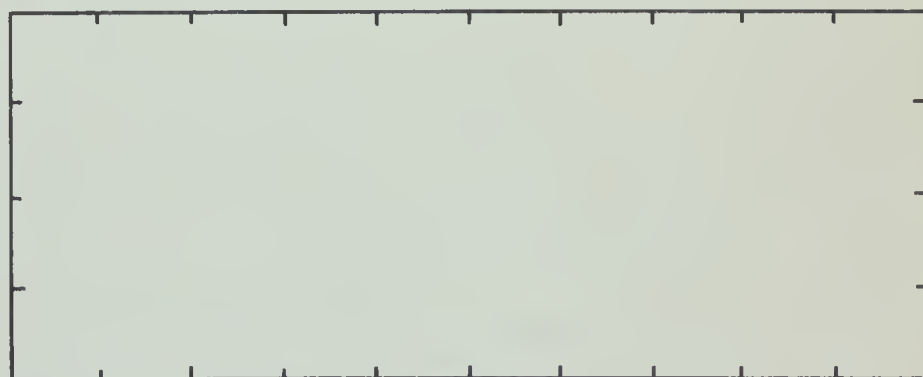
f)



g)



h)



i)

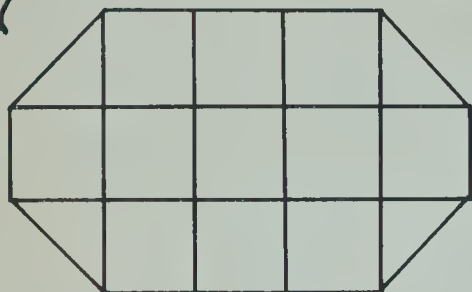


1. Find the area of each shape.

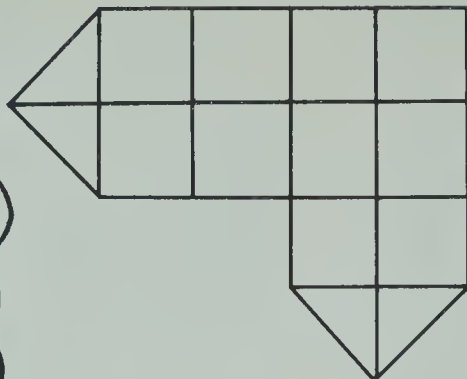
This square has an area of 1 cm^2 .



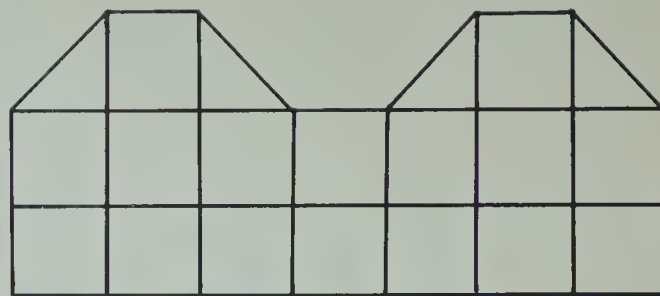
This shape has an area of 0.5 cm^2 .



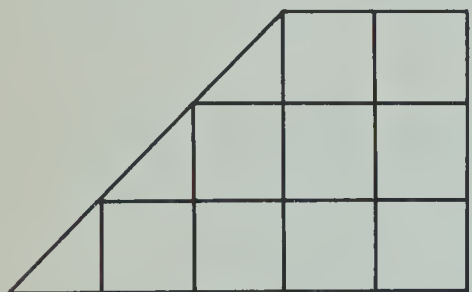
a) Area = 13 cm^2



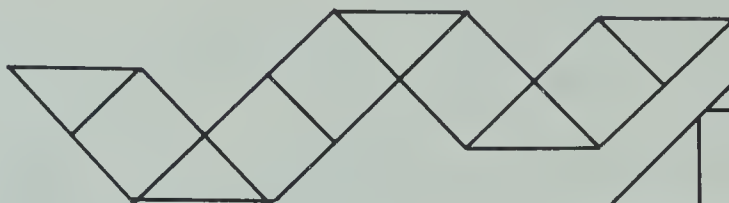
b) Area = 12 cm^2



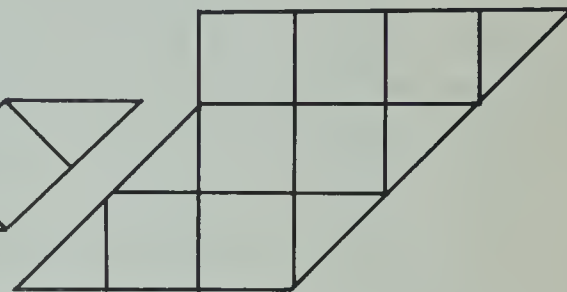
c) Area = 18 cm^2



d) Area = 10.5 cm^2



e) Area = 7.5 cm^2



f) Area = 9.5 cm^2

2. On the 1 cm grid, draw shapes that have these areas.

a) 5.5 cm^2

b) 10.5 cm^2

c) 14.5 cm^2

d) 12.5 cm^2

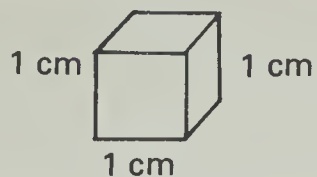
e) 16.5 cm^2

f) 8.5 cm^2

Answers will vary

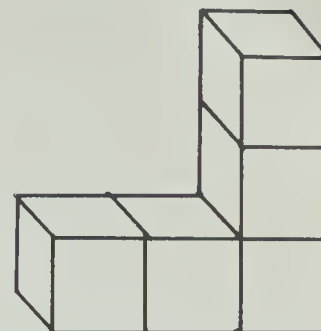
1. Find the volume of each structure.

Each small cube is 1 cm^3 .



c) Volume = 5 cm^3

b) Volume = 6 cm^3



a) Volume = 3 cm^3

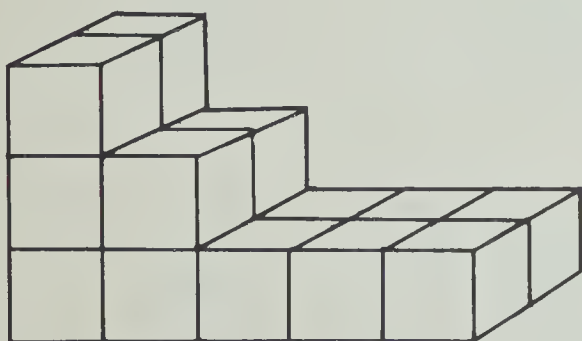
e) Volume = 11 cm^3



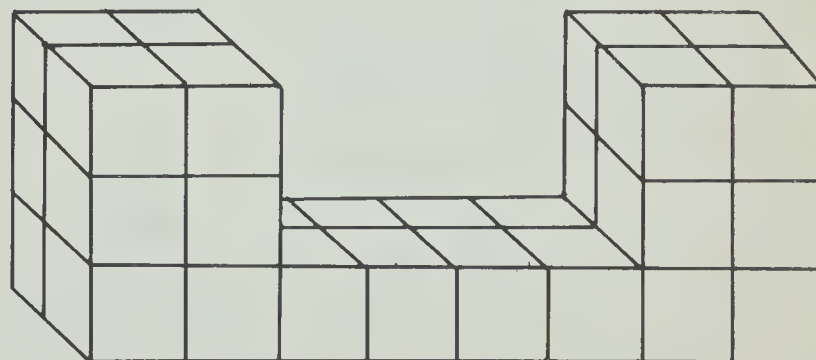
f) Volume = 12 cm^3



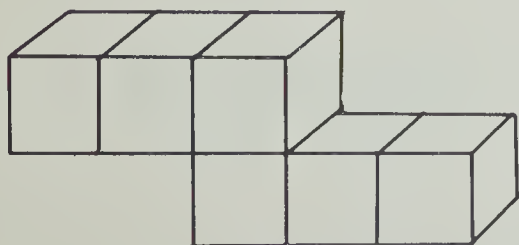
d) Volume = 9 cm^3



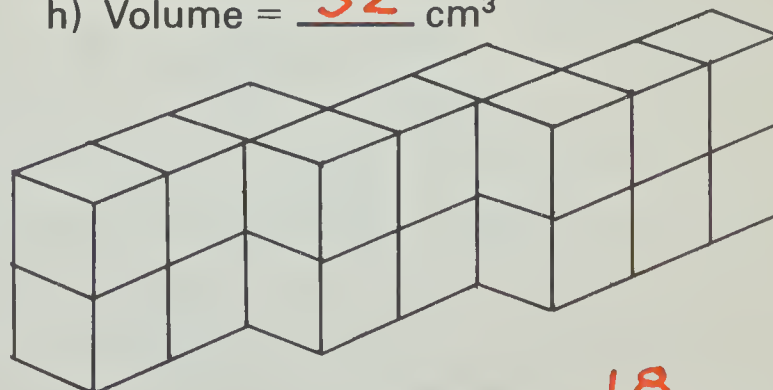
g) Volume = 16 cm^3



h) Volume = 32 cm^3



i) Volume = 6 cm^3



j) Volume = 18 cm^3

1. What numbers are represented?

a) $4000 + 100 + 80 + 6 + 0.4 + 0.06$

4186.46

b) $8000 + 700 + 60 + 4 + 0.1 + 0.03$

8764.13

c) $1000 + 300 + 20 + 9 + 0.9 + 0.05$

1329.95

d) $5000 + 200 + 80 + 1 + 0.1 + 0.04$

5281.14

e) $9000 + 70 + 3 + 0.4 + 0.05$

9073.45

2. Write the meaning of each number.

a) 4731.15 4 thousands, 7 hundreds, 3 tens, 1 one
1 tenth and 5 hundredths

b) 3904.22 _____

c) 5782.94 _____

d) 2846.73 _____

3. Order from greatest to least.

a)

1462.47

1463.52

1460.52

1460.48

1463.52

1462.47

1460.52

1460.48

b)

4060.34

4061.34

4060.15

4060.84

4061.34

4060.84

4060.34

4060.15

4. What is the value of each underlined digit?

a) 3482.15 4 hundreds

b) 1004.63 4 ones

c) 8460.15 5 hundredths

d) 7846.33 3 tenths

1. Add.

a)
$$\begin{array}{r} 625 \\ 687 \\ \hline 1312 \end{array}$$
 ↑

Think Record

12	2
9, 11	1
7, 13	13

b)
$$\begin{array}{r} 387 \\ 684 \\ \hline 1071 \end{array}$$

c)
$$\begin{array}{r} 856 \\ 492 \\ \hline 1348 \end{array}$$

d)
$$\begin{array}{r} 809 \\ 534 \\ \hline 1343 \end{array}$$

e)
$$\begin{array}{r} 387 \\ 946 \\ \hline 1333 \end{array}$$

f)
$$\begin{array}{r} 506 \\ 509 \\ \hline 1015 \end{array}$$

g)
$$\begin{array}{r} 470 \\ 258 \\ \hline 728 \end{array}$$

h)
$$\begin{array}{r} 921 \\ 438 \\ \hline 1359 \end{array}$$

i)
$$\begin{array}{r} 654 \\ 149 \\ \hline 803 \end{array}$$

j)
$$\begin{array}{r} 5463 \\ 1874 \\ \hline 7337 \end{array}$$

k)
$$\begin{array}{r} 3457 \\ 3896 \\ \hline 7353 \end{array}$$

l)
$$\begin{array}{r} 8341 \\ 258 \\ \hline 8599 \end{array}$$

m)
$$\begin{array}{r} 6240 \\ 2760 \\ \hline 9000 \end{array}$$

n)
$$\begin{array}{r} 3490 \\ 3090 \\ \hline 6580 \end{array}$$

2. Add.

a)
$$\begin{array}{r} 6897 \\ 5413 \\ \hline 12310 \end{array}$$
 ↑

Think Record

10	0
2, 11	1
5, 13	3
6, 12	12

b)
$$\begin{array}{r} 5921 \\ 8409 \\ \hline 14330 \end{array}$$

c)
$$\begin{array}{r} 3004 \\ 9628 \\ \hline 12632 \end{array}$$

d)
$$\begin{array}{r} 7133 \\ 3847 \\ \hline 10980 \end{array}$$

e)
$$\begin{array}{r} 4870 \\ 9089 \\ \hline 13959 \end{array}$$

f)
$$\begin{array}{r} 8641 \\ 8937 \\ \hline 17578 \end{array}$$

g)
$$\begin{array}{r} 4762 \\ 9099 \\ \hline 13861 \end{array}$$

h)
$$\begin{array}{r} 6007 \\ 6998 \\ \hline 13005 \end{array}$$

i)
$$\begin{array}{r} 5197 \\ 8346 \\ \hline 13543 \end{array}$$

j)
$$\begin{array}{r} 7200 \\ 6480 \\ \hline 13680 \end{array}$$

k)
$$\begin{array}{r} 5924 \\ 4937 \\ \hline 10861 \end{array}$$

l)
$$\begin{array}{r} 2472 \\ 8980 \\ \hline 11452 \end{array}$$

m)
$$\begin{array}{r} 6622 \\ 5328 \\ \hline 11950 \end{array}$$

n)
$$\begin{array}{r} 3850 \\ 7700 \\ \hline 11550 \end{array}$$

3. Attendance:

Saturday 5 734
Sunday 6 048

4. Attendance:

Saturday 6 247
Sunday 5 587

Total attendance ? 11 782Total attendance ? 11 834

1. Subtract.

a)
$$\begin{array}{r} 7426 \\ - 3897 \\ \hline 3529 \end{array}$$

↓

Think Record

16,9	9
11,2	2
13,5	5
6,3	3

b)
$$\begin{array}{r} 8049 \\ - 3293 \\ \hline 4756 \end{array}$$

c)
$$\begin{array}{r} 5386 \\ - 1758 \\ \hline 3628 \end{array}$$

d)
$$\begin{array}{r} 3821 \\ - 1369 \\ \hline 2452 \end{array}$$

e)
$$\begin{array}{r} 6927 \\ - 3458 \\ \hline 3469 \end{array}$$

f)
$$\begin{array}{r} 9143 \\ - 5828 \\ \hline 3315 \end{array}$$

g)
$$\begin{array}{r} 7064 \\ - 3928 \\ \hline 3136 \end{array}$$

h)
$$\begin{array}{r} 5064 \\ - 2783 \\ \hline 2281 \end{array}$$

i)
$$\begin{array}{r} 8431 \\ - 5817 \\ \hline 2614 \end{array}$$

j)
$$\begin{array}{r} 9381 \\ - 4895 \\ \hline 4486 \end{array}$$

k)
$$\begin{array}{r} 5340 \\ - 1785 \\ \hline 3555 \end{array}$$

l)
$$\begin{array}{r} 8405 \\ - 3876 \\ \hline 4529 \end{array}$$

m)
$$\begin{array}{r} 6180 \\ - 4993 \\ \hline 1187 \end{array}$$

n)
$$\begin{array}{r} 7505 \\ - 2906 \\ \hline 4599 \end{array}$$

2.

Length of Canadian Rivers

St. Lawrence 3057 km

Fraser 1368 km

Mackenzie 4240 km

Nelson 2574 km

Ottawa 1271 km

Churchill 1609 km

How much longer is

a) the St. Lawrence than the Ottawa?

b) the Mackenzie than the St. Lawrence?

$$\begin{array}{r} 3057 \\ - 1271 \\ \hline 1786 \end{array}$$
 1786 km longer.

$$\begin{array}{r} 4240 \\ - 3057 \\ \hline 1183 \end{array}$$
 1183 km longer.

c) the Nelson than the Fraser?

d) the Mackenzie than the Churchill?

$$\begin{array}{r} 2574 \\ - 1368 \\ \hline 1206 \end{array}$$
 1206 km longer.

$$\begin{array}{r} 4240 \\ - 1609 \\ \hline 2631 \end{array}$$
 2631 km longer.

e) the St. Lawrence than the Nelson?

f) the Mackenzie than the Fraser?

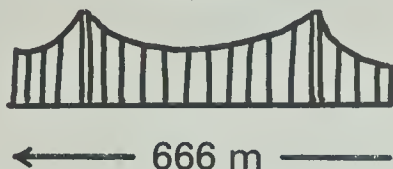
$$\begin{array}{r} 3057 \\ - 2574 \\ \hline 483 \end{array}$$
 483 km longer.

$$\begin{array}{r} 4240 \\ - 1368 \\ \hline 2872 \end{array}$$
 2872 km longer.

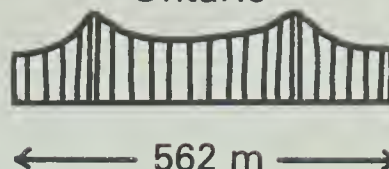
Famous Canadian Bridges

Suspension Bridges

Québec Road Bridge
Québec



Ambassador Bridge
Ontario



- a) How much longer is the Québec Road Bridge?

It is 104 m longer

$$\begin{array}{r} 666 \\ 562 \\ \hline 104 \end{array}$$

- b) The Québec Road Bridge was opened in 1969. How old is it?

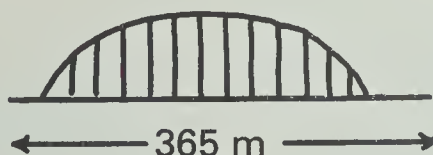
The answers will vary depending on the year of the present class.

- c) The Ambassador Bridge was opened in 1929. How long ago was that?

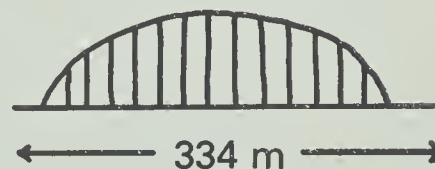
answers will vary

Steel Arch Bridges

Port Mann Bridge
British Columbia



Trois-Rivières Bridge
Québec



- a) How much longer is the Port Mann Bridge?

$$\begin{array}{r} 365 \\ 334 \\ \hline 31 \end{array}$$

It is 31 km longer

- b) The Trois-Rivières Bridge was built in 1967. How old is it?

answers will vary

1. Add.

a)
$$\begin{array}{r} 257.98 \\ 196.22 \\ \hline 454.20 \end{array}$$

Think Record

10	0
3, 12	2
7, 14	4
10, 15	5
2, 4	4

b)
$$\begin{array}{r} 629.46 \\ 318.65 \\ \hline 948.11 \end{array}$$

c)
$$\begin{array}{r} 509.76 \\ 294.08 \\ \hline 803.84 \end{array}$$

d)
$$\begin{array}{r} 380.45 \\ 529.67 \\ \hline 910.12 \end{array}$$

e)
$$\begin{array}{r} 400.69 \\ 784.48 \\ \hline 1185.17 \end{array}$$

f)
$$\begin{array}{r} 720.41 \\ 538.69 \\ \hline 1259.10 \end{array}$$

g)
$$\begin{array}{r} 333.88 \\ 416.35 \\ \hline 750.23 \end{array}$$

h)
$$\begin{array}{r} 285.66 \\ 786.31 \\ \hline 1071.97 \end{array}$$

i)
$$\begin{array}{r} 490.90 \\ 384.62 \\ \hline 875.52 \end{array}$$

j)
$$\begin{array}{r} 387.75 \\ 148.75 \\ \hline 536.50 \end{array}$$

k)
$$\begin{array}{r} 976.32 \\ 187.95 \\ \hline 1164.27 \end{array}$$

2. Add.

a)
$$\begin{array}{r} \$147.65 \\ 283.38 \\ \hline \$431.03 \end{array}$$

b)
$$\begin{array}{r} \$475.00 \\ 327.35 \\ \hline \$802.35 \end{array}$$

c)
$$\begin{array}{r} \$199.87 \\ 436.50 \\ \hline \$636.37 \end{array}$$

d)
$$\begin{array}{r} \$599.80 \\ 257.65 \\ \hline \$857.45 \end{array}$$

e)
$$\begin{array}{r} \$490.00 \\ 370.00 \\ \hline \$860.00 \end{array}$$

f)
$$\begin{array}{r} \$285.00 \\ 476.00 \\ \hline \$761.00 \end{array}$$

g)
$$\begin{array}{r} \$199.95 \\ 375.00 \\ \hline \$574.95 \end{array}$$

h)
$$\begin{array}{r} \$257.80 \\ 358.85 \\ \hline \$616.65 \end{array}$$

i)
$$\begin{array}{r} \$970.25 \\ 364.50 \\ \hline \$1334.75 \end{array}$$

j)
$$\begin{array}{r} \$278.75 \\ 816.00 \\ \hline \$1094.75 \end{array}$$

k)
$$\begin{array}{r} \$789.56 \\ 423.37 \\ \hline \$1212.93 \end{array}$$

l)
$$\begin{array}{r} \$827.92 \\ 198.87 \\ \hline \$1026.79 \end{array}$$

3.



How far from Julie's house to her Aunt Vera's house?

$$\begin{array}{r} 374.15 \\ 418.56 \\ \hline 792.71 \end{array} \quad 792.71 \text{ km}$$

1. Subtract.

$$\begin{array}{r} \text{a) } 436.15 \\ - 297.18 \\ \hline 138.97 \end{array}$$

Think	Record
15, 7	7
10, 9	9
15, 8	8
12, 3	3
3, 1	1

$$\begin{array}{r} \text{b) } 524.83 \\ - 184.96 \\ \hline 339.87 \end{array}$$

$$\begin{array}{r} \text{c) } 774.85 \\ - 284.68 \\ \hline 490.17 \end{array}$$

$$\begin{array}{r} \text{d) } 692.13 \\ - 258.46 \\ \hline 433.67 \end{array}$$

$$\begin{array}{r} \text{e) } 596.84 \\ - 289.36 \\ \hline 307.48 \end{array}$$

$$\begin{array}{r} \text{f) } 994.15 \\ - 827.63 \\ \hline 166.52 \end{array}$$

$$\begin{array}{r} \text{g) } 790.84 \\ - 457.06 \\ \hline 333.78 \end{array}$$

$$\begin{array}{r} \text{h) } 684.13 \\ - 396.38 \\ \hline 287.75 \end{array}$$

$$\begin{array}{r} \text{i) } 257.46 \\ - 186.39 \\ \hline 71.07 \end{array}$$

$$\begin{array}{r} \text{j) } 448.37 \\ - 329.56 \\ \hline 118.81 \end{array}$$

$$\begin{array}{r} \text{k) } 897.56 \\ - 684.98 \\ \hline 212.58 \end{array}$$

2. Subtract.

$$\begin{array}{r} \text{a) } \$365.84 \\ - 197.58 \\ \hline \$168.26 \end{array}$$

$$\begin{array}{r} \text{b) } \$497.83 \\ - 246.97 \\ \hline \$250.86 \end{array}$$

$$\begin{array}{r} \text{c) } \$897.41 \\ - 358.76 \\ \hline \$538.65 \end{array}$$

$$\begin{array}{r} \text{d) } \$604.38 \\ - 387.90 \\ \hline \$216.48 \end{array}$$

$$\begin{array}{r} \text{e) } \$700.49 \\ - 384.99 \\ \hline \$315.50 \end{array}$$

$$\begin{array}{r} \text{f) } \$285.00 \\ - 137.68 \\ \hline \$147.32 \end{array}$$

$$\begin{array}{r} \text{g) } \$599.00 \\ - 374.56 \\ \hline \$224.44 \end{array}$$

$$\begin{array}{r} \text{h) } \$690.80 \\ - 459.38 \\ \hline \$231.42 \end{array}$$

$$\begin{array}{r} \text{i) } \$795.81 \\ - 458.99 \\ \hline \$336.82 \end{array}$$

$$\begin{array}{r} \text{j) } \$641.23 \\ - 248.64 \\ \hline \$392.59 \end{array}$$

$$\begin{array}{r} \text{k) } \$327.36 \\ - 94.76 \\ \hline \$232.60 \end{array}$$

$$\begin{array}{r} \text{l) } \$584.31 \\ - 99.99 \\ \hline \$484.32 \end{array}$$

1. Class trip to museum:

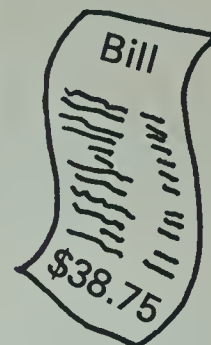
Bus \$30.75
Entrance fee 15.50

What is the total cost?

$$\begin{array}{r} \$30.75 \\ 15.50 \\ \hline 46.25 \end{array}$$

The total cost is \$46.25

- 2.

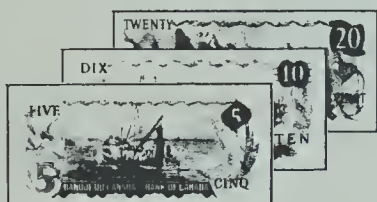


How much change?

$$\begin{array}{r} \$40.00 \\ 38.75 \\ \hline \$1.25 \end{array}$$

\$1.25 change

- 3.

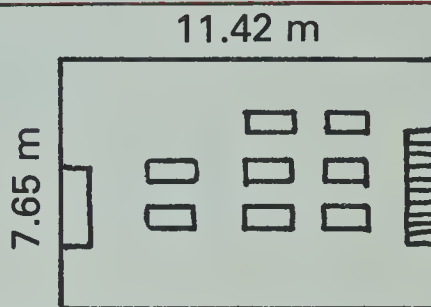


How much change?

$$\begin{array}{r} \$35.00 \\ 27.85 \\ \hline \$7.15 \end{array}$$

\$7.15 change

- 4.



What is the perimeter of the classroom?

$$\begin{array}{r} 11.42 \\ 7.65 \\ \hline 19.07 \\ \times 2 \\ \hline 38.14 \end{array}$$

The perimeter is 38.14 m.

- 5.

Mr. Roy

Mr. Guido



74.86 kg

89.47 kg

How much heavier is Mr. Guido?

Mr. Guido is
14.61 kg
heavier.

$$\begin{array}{r} 89.47 \\ 74.86 \\ \hline 14.61 \end{array}$$

6. What is the total capacity?



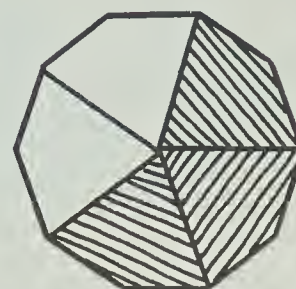
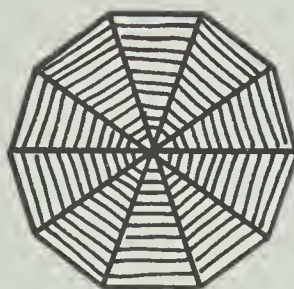
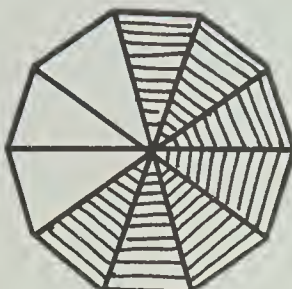
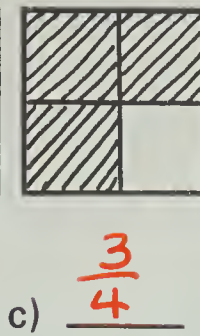
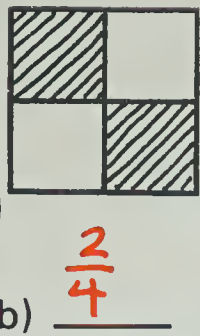
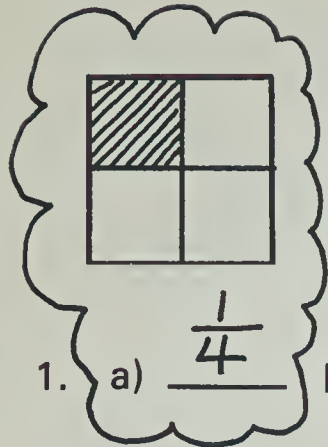
11.99 L

18.15 L

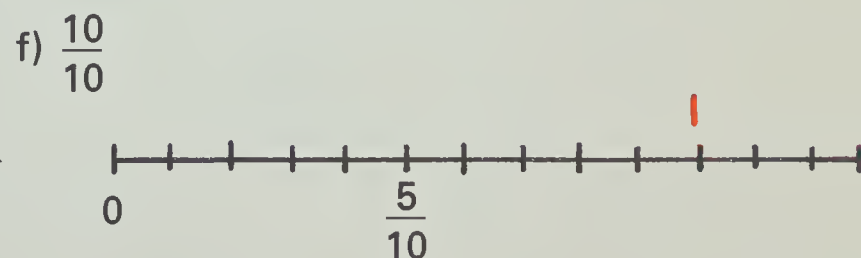
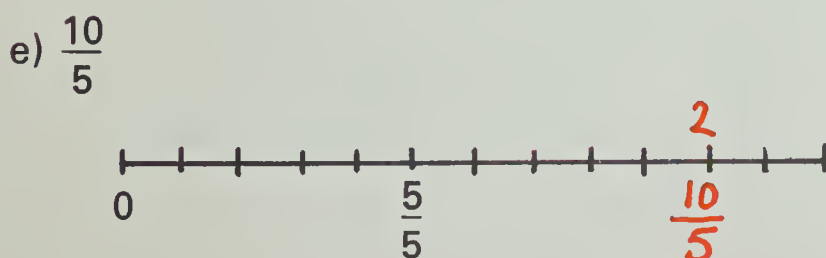
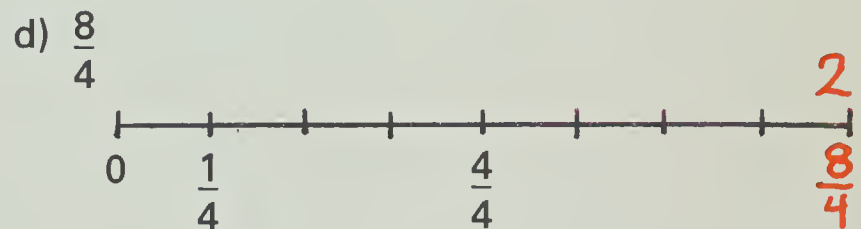
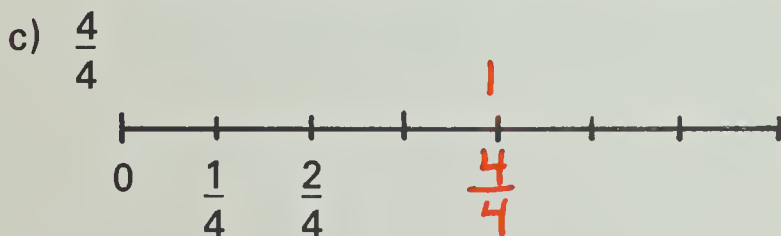
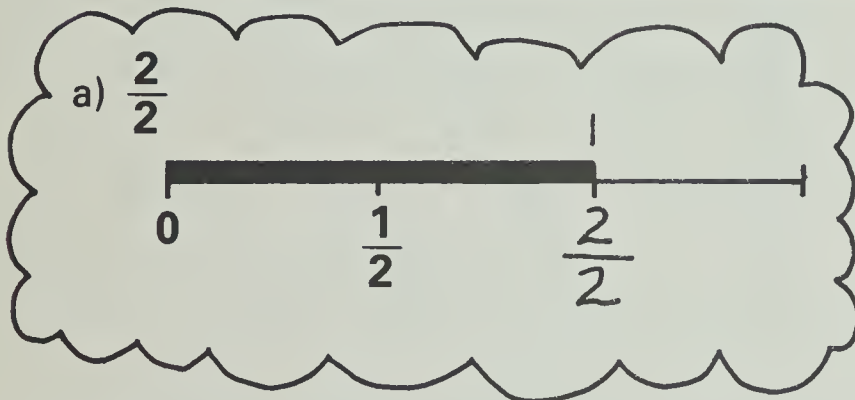
$$\begin{array}{r} 11.99 \\ 18.15 \\ \hline 30.14 \end{array}$$

30.14 L is the
total capacity.

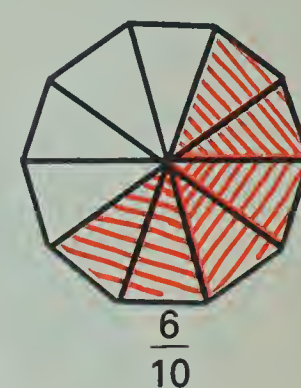
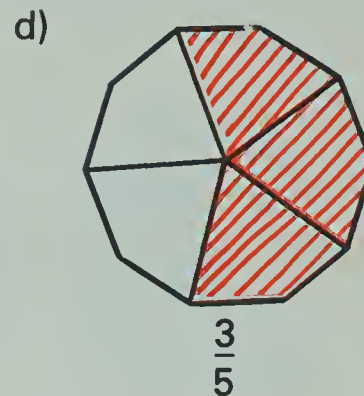
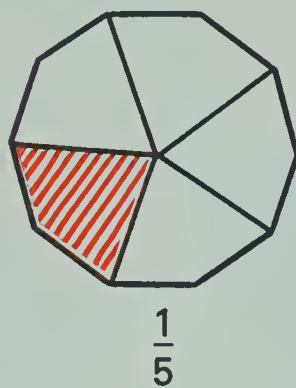
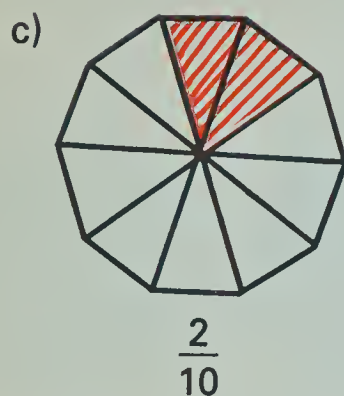
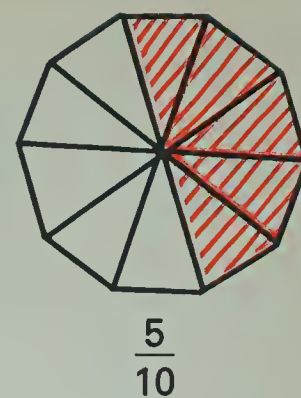
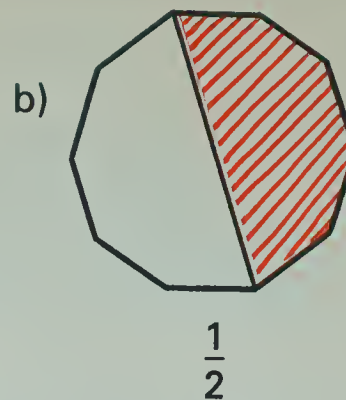
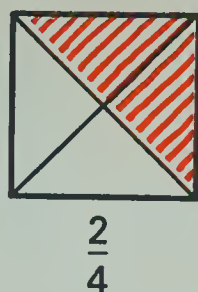
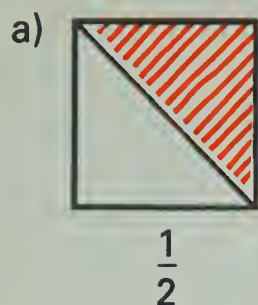
What fraction of each shape is shaded?



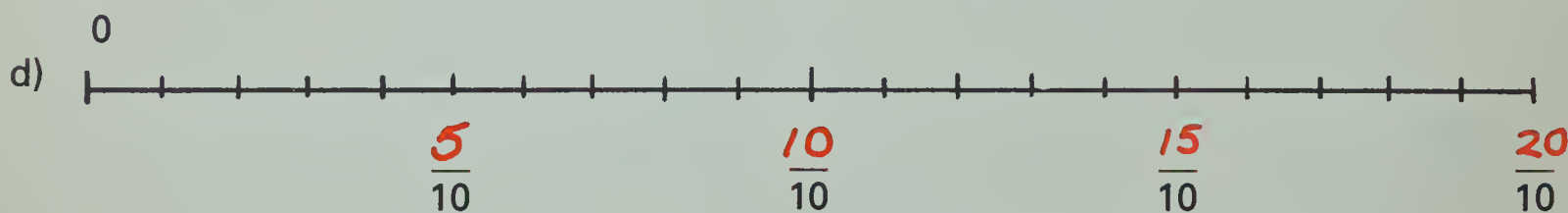
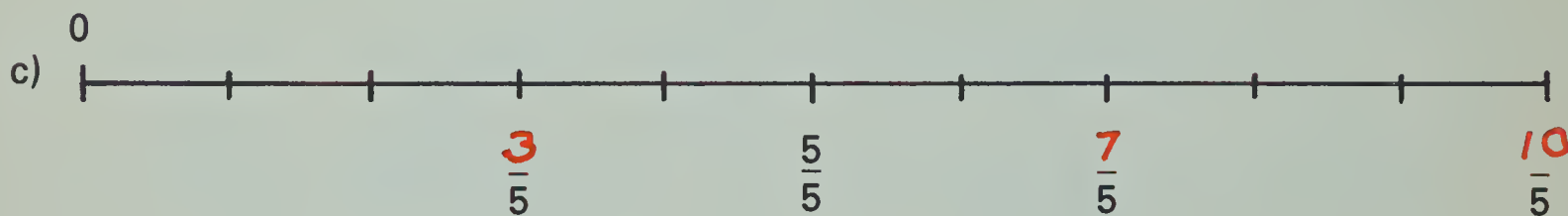
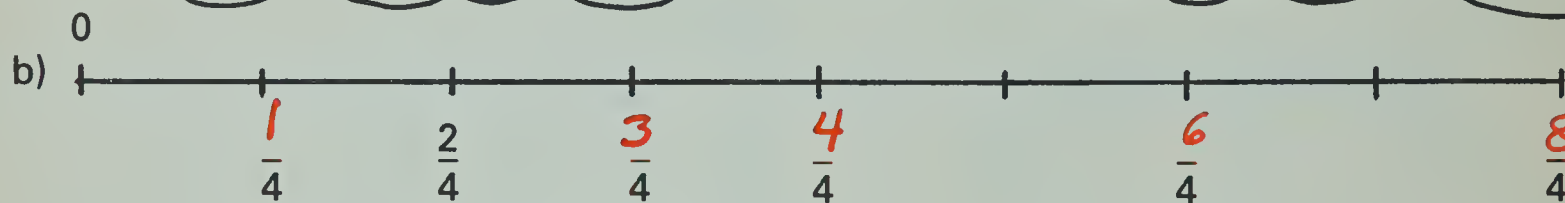
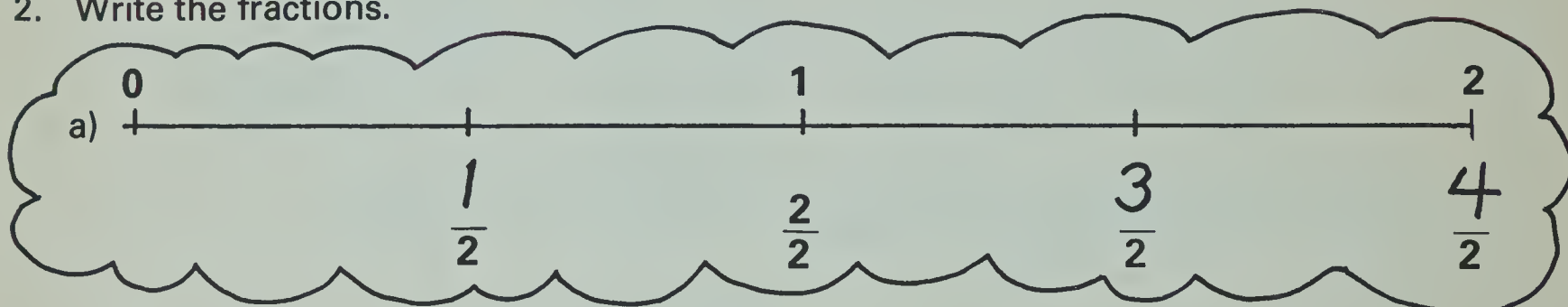
5. Colour to show the fraction. Write a whole number for the fraction.



1. Colour to show equivalent fractions.



2. Write the fractions.



3. Complete.

a) $\frac{1}{2} = \frac{2}{4}$

b) $\frac{3}{5} = \frac{6}{10}$

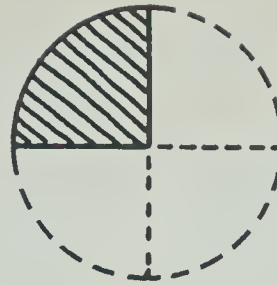
c) $\frac{1}{2} = \frac{5}{10}$

d) $\frac{4}{4} = \frac{2}{2}$

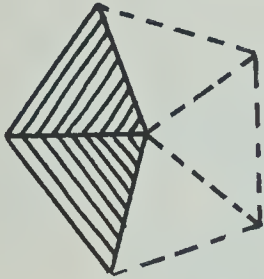
1. Add.



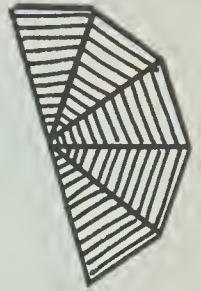
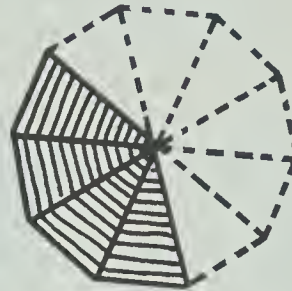
$$a) \frac{1}{2} + \frac{1}{2} = \underline{\frac{2}{2}}$$



$$b) \frac{1}{4} + \frac{1}{4} = \underline{\frac{2}{4}}$$

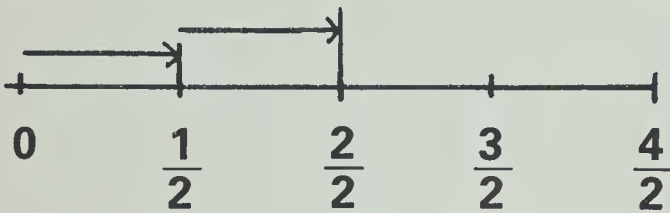


$$c) \frac{2}{5} + \frac{1}{5} = \underline{\frac{3}{5}}$$

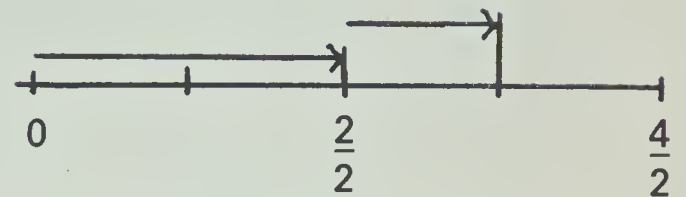


$$d) \frac{4}{10} + \frac{5}{10} = \underline{\frac{9}{10}}$$

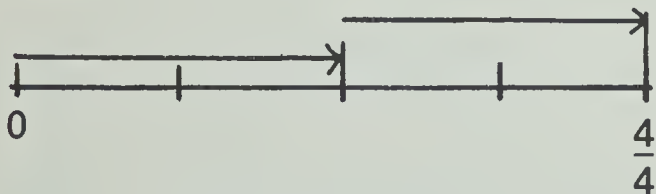
2. Add.



$$a) \underline{\frac{1}{2}} + \underline{\frac{1}{2}} = \underline{\frac{2}{2}}$$



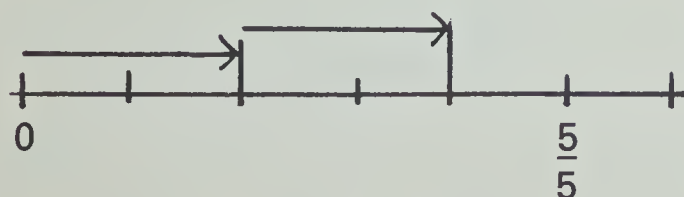
$$b) \underline{\frac{2}{2}} + \underline{\frac{1}{2}} = \underline{\frac{3}{2}}$$



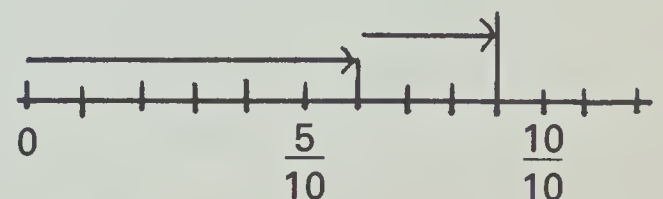
$$c) \underline{\frac{2}{4}} + \underline{\frac{2}{4}} = \underline{\frac{4}{4}}$$



$$d) \underline{\frac{1}{4}} + \underline{\frac{2}{4}} = \underline{\frac{3}{4}}$$

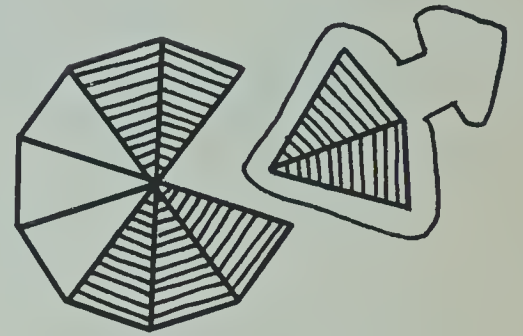
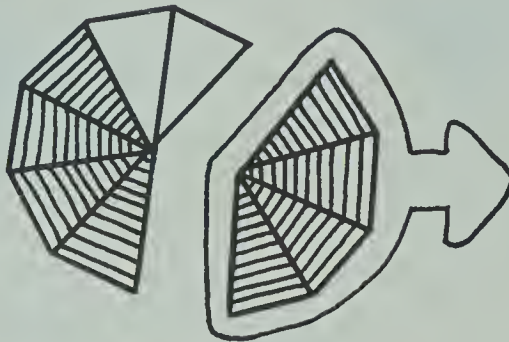
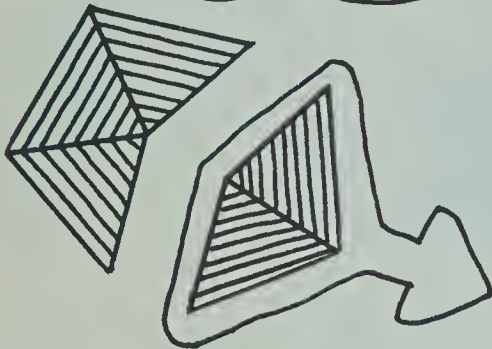
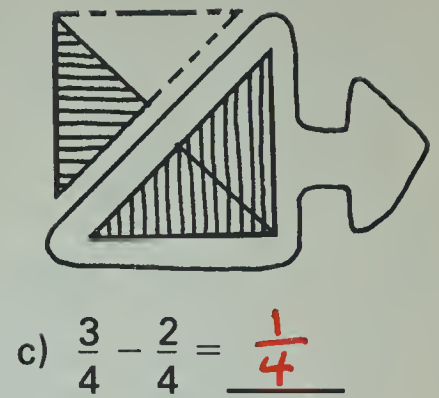
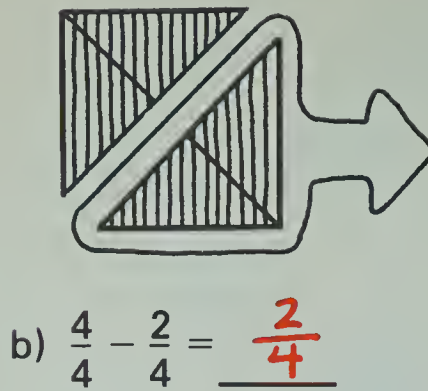
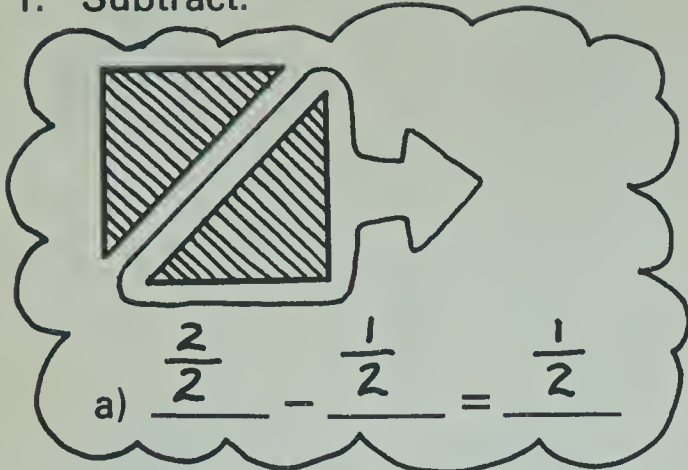


$$e) \underline{\frac{2}{5}} + \underline{\frac{2}{5}} = \underline{\frac{4}{5}}$$

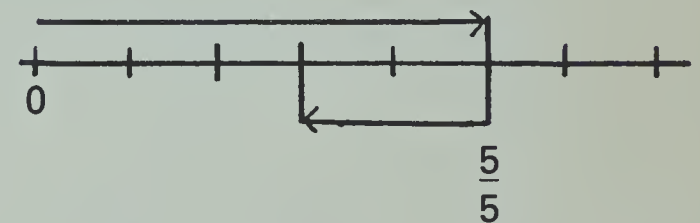
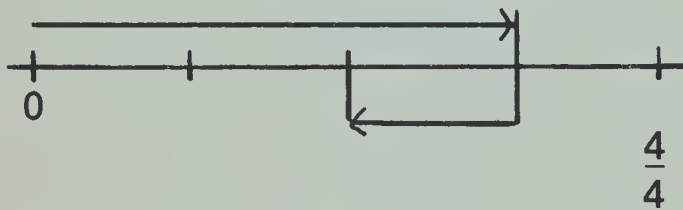
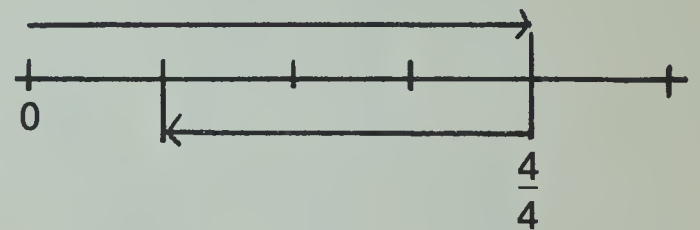
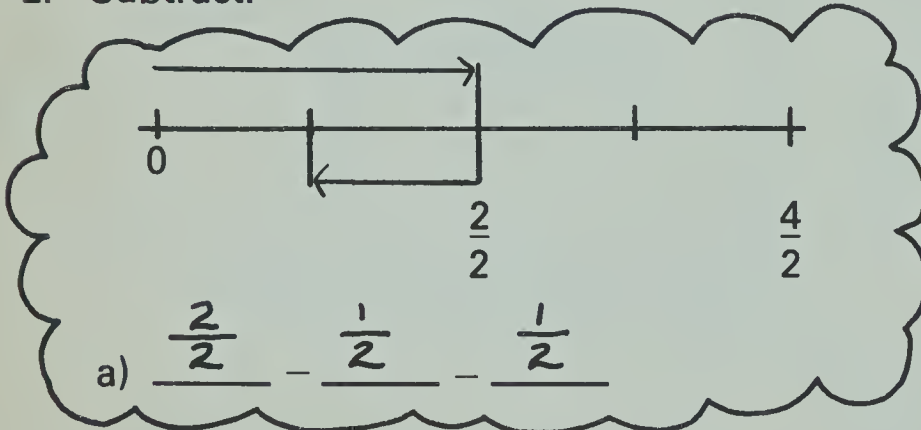


$$f) \underline{\frac{6}{10}} + \underline{\frac{3}{10}} = \underline{\frac{9}{10}}$$

1. Subtract.

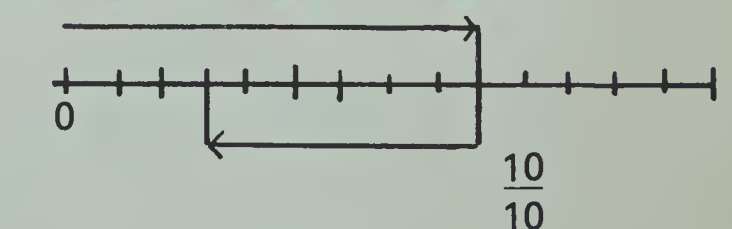
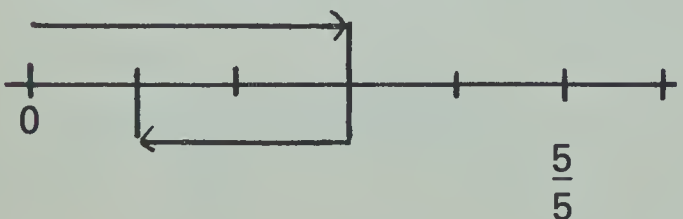


2. Subtract.



c) $\frac{3}{4} - \frac{1}{4} = \frac{2}{4}$

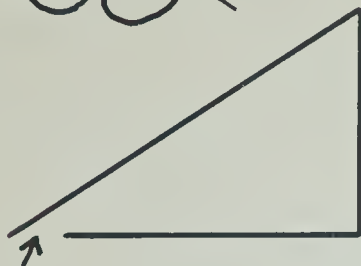
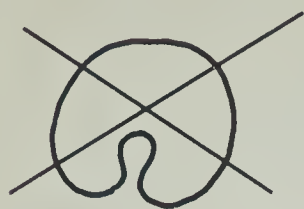
d) $\frac{5}{5} - \frac{2}{5} = \frac{3}{5}$



e) $\frac{3}{5} - \frac{2}{5} = \frac{1}{5}$

f) $\frac{9}{10} - \frac{6}{10} = \frac{3}{10}$

1. Put an X on each of the simple closed curves.



2. S

Print 3 different capital letters which are open curves.

answers will vary

3. D

Print 3 different capital letters which are simple closed curves.

answers will vary

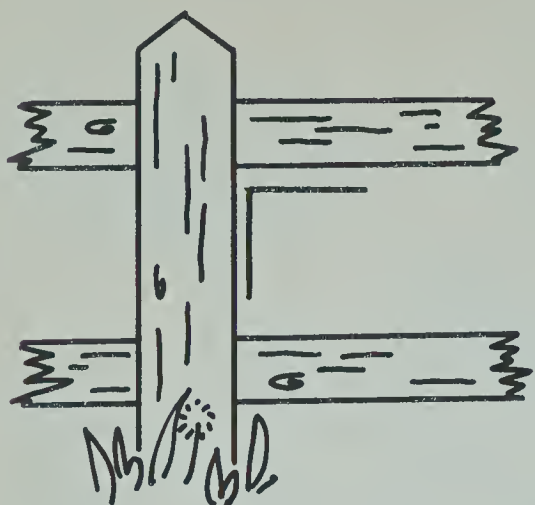
4. Draw your own simple closed curve.

answers will vary

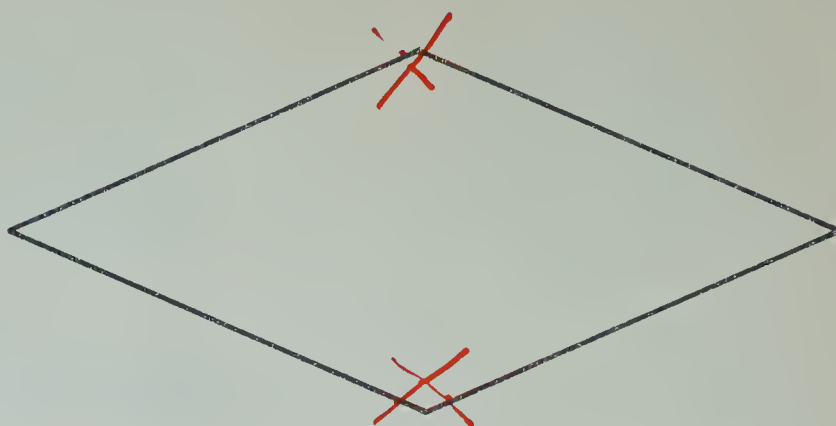
5. Draw your own open curve.

answers will vary

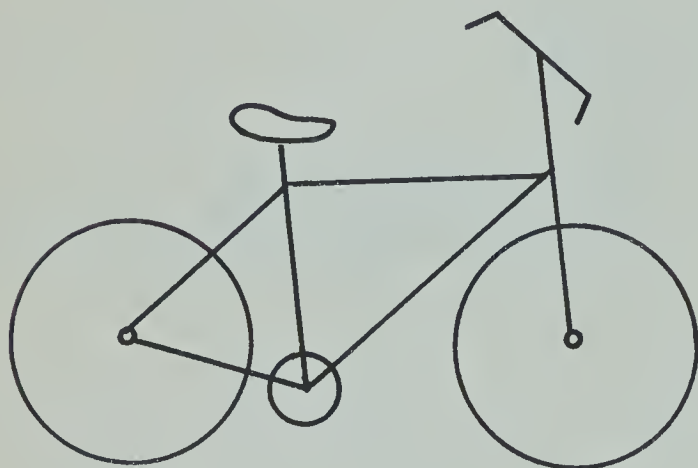
1. Mark as many right angles as you can.



2. Mark angles greater than a right angle.



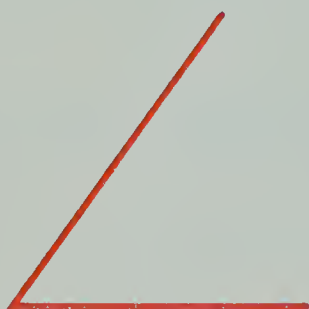
3. Mark angles less than a right angle.



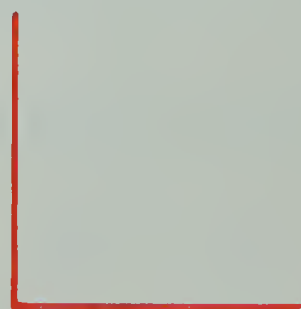
4. Draw an angle which is greater than a right angle.



5. Draw an angle which is less than a right angle.



6. Draw a right angle.



1.

Sending Messages By Semaphore

A



Less than a right angle

B



Right angle

C



Greater than a right angle

For each letter in the semaphore code, tell if the angle formed is greater than a right angle, less than a right angle, or a right angle.

E

greater

F

right

G

less

H

less

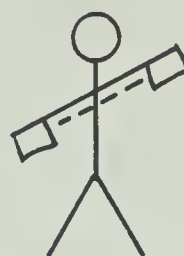
I

right

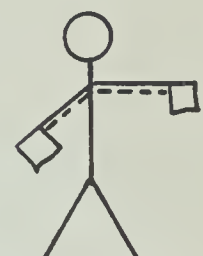
J

greater

K

greater

L

greater

M

greater

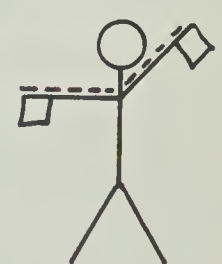
N

less

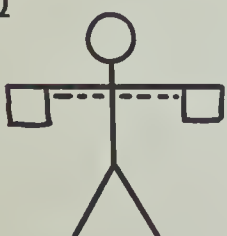
O

right

P

greater

Q

greater

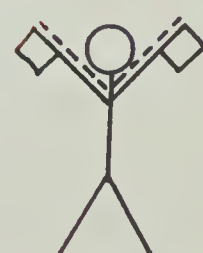
R

greater

S

less

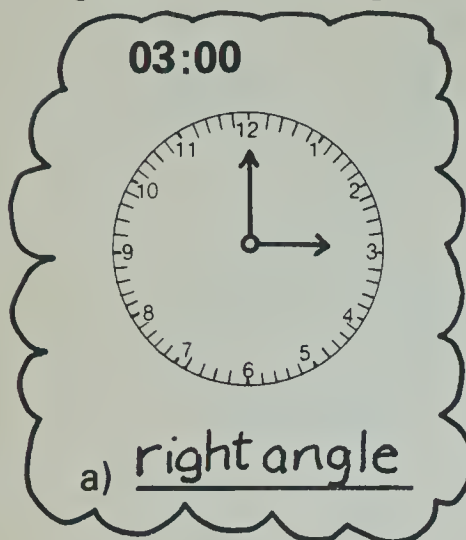
T

right

1. Show the time on each clock face.

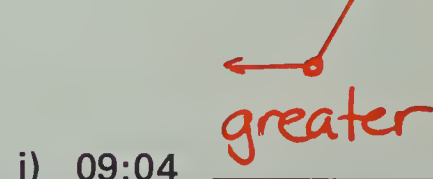
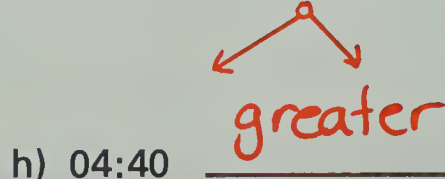
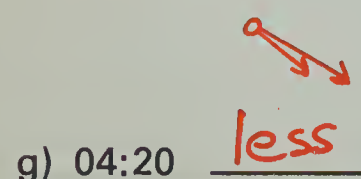
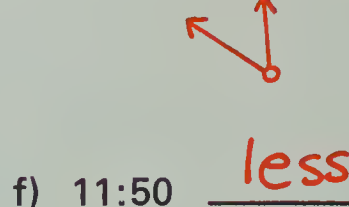
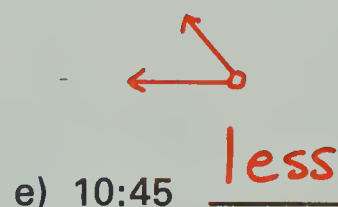
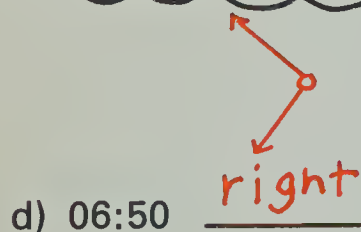
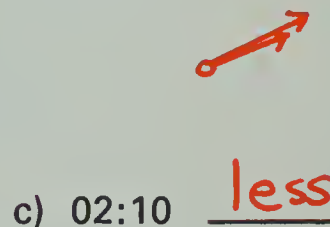
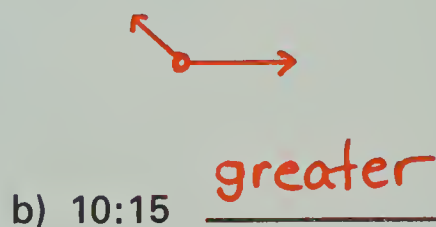
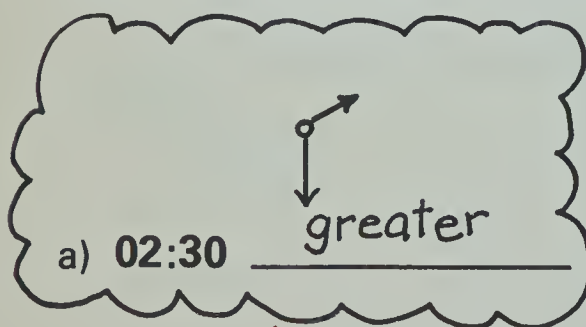
Tell whether the angle formed by the 2 hands is

greater than a right angle, less than a right angle, or a right angle.



2. Draw the angle formed by the hands of a clock for the following times.

Tell if the angle is greater than a right angle, less than a right angle, or a right angle.



1. Complete the patterns.

a) $3 \times 1 = \underline{3}$

$3 \times 10 = \underline{30}$

$3 \times 100 = \underline{300}$

b) $7 \times 1 = \underline{7}$

$7 \times 10 = \underline{70}$

$7 \times 100 = \underline{700}$

c) $9 \times 1 = \underline{9}$

$9 \times 10 = \underline{90}$

$9 \times 100 = \underline{900}$

d) $4 \times 1 = \underline{4}$

$4 \times 10 = \underline{40}$

$4 \times 100 = \underline{400}$

e) $14 \times 1 = \underline{14}$

$14 \times 10 = \underline{140}$

$14 \times 100 = \underline{1400}$

f) $22 \times 1 = \underline{22}$

$22 \times 10 = \underline{220}$

$22 \times 100 = \underline{2200}$

g) $51 \times 1 = \underline{51}$

$51 \times 10 = \underline{510}$

$51 \times 100 = \underline{5100}$

h) $35 \times 1 = \underline{35}$

$35 \times 10 = \underline{350}$

$35 \times 100 = \underline{3500}$

i) $19 \times 1 = \underline{19}$

$19 \times 10 = \underline{190}$

$19 \times 100 = \underline{1900}$

j) $30 \times 1 = \underline{30}$

$30 \times 10 = \underline{300}$

$30 \times 100 = \underline{3000}$

k) $60 \times 1 = \underline{60}$

$60 \times 10 = \underline{600}$

$60 \times 100 = \underline{6000}$

l) $62 \times 1 = \underline{62}$

$62 \times 10 = \underline{620}$

$62 \times 100 = \underline{6200}$

2. Complete.

a) $6 \times 10 = \underline{60}$ b) $14 \times 100 = \underline{1400}$ c) $50 \times 1 = \underline{50}$ d) $25 \times 100 = \underline{2500}$

e) $8 \times 100 = \underline{800}$ f) $17 \times 100 = \underline{1700}$ g) $49 \times 10 = \underline{490}$ h) $15 \times 1 = \underline{15}$

i) $60 \times 10 = \underline{600}$ j) $6 \times 100 = \underline{600}$ k) $75 \times 10 = \underline{750}$ l) $10 \times 10 = \underline{100}$

m) $5 \times 100 = \underline{500}$ n) $1 \times 100 = \underline{100}$ o) $68 \times 100 = \underline{6800}$ p) $37 \times 100 = \underline{3700}$

3. How many centimetres?

$1 \text{ m} = 100 \text{ cm}$

a) $2 \text{ m} = \underline{200} \text{ cm}$

b) $5 \text{ m} = \underline{500} \text{ cm}$

c) $10 \text{ m} = \underline{1000} \text{ cm}$

d) $18 \text{ m} = \underline{1800} \text{ cm}$

e) $30 \text{ m} = \underline{3000} \text{ cm}$

f) $14 \text{ m} = \underline{1400} \text{ cm}$

g) $20 \text{ m} = \underline{2000} \text{ cm}$

h) $23 \text{ m} = \underline{2300} \text{ cm}$

i) $33 \text{ m} = \underline{3300} \text{ cm}$

1. Complete the patterns.

a) $3 \div 1 = \underline{3}$
 $30 \div 10 = \underline{3}$
 $300 \div 100 = \underline{3}$

b) $7 \div 1 = \underline{7}$

$70 \div 10 = \underline{7}$

$700 \div 100 = \underline{7}$

c) $15 \div 1 = \underline{15}$

$150 \div 10 = \underline{15}$

$1500 \div 100 = \underline{15}$

d) $24 \div 1 = \underline{24}$

$240 \div 10 = \underline{24}$

$2400 \div 100 = \underline{24}$

e) $19 \div 1 = \underline{19}$

$190 \div 10 = \underline{19}$

$1900 \div 100 = \underline{19}$

f) $56 \div 1 = \underline{56}$

$560 \div 10 = \underline{56}$

$5600 \div 100 = \underline{56}$

g) $32 \div 1 = \underline{32}$

$320 \div 10 = \underline{32}$

$3200 \div 100 = \underline{32}$

h) $14 \div 1 = \underline{14}$

$140 \div 10 = \underline{14}$

$1400 \div 100 = \underline{14}$

i) $13 \div 1 = \underline{13}$

$130 \div 10 = \underline{13}$

$1300 \div 100 = \underline{13}$

j) $29 \div 1 = \underline{29}$

$290 \div 10 = \underline{29}$

$2900 \div 100 = \underline{29}$

k) $40 \div 1 = \underline{40}$

$400 \div 10 = \underline{40}$

$4000 \div 100 = \underline{40}$

l) $20 \div 1 = \underline{20}$

$200 \div 10 = \underline{20}$

$2000 \div 100 = \underline{20}$

2. Complete.

a) $60 \div 10 = \underline{6}$

b) $400 \div 100 = \underline{4}$

c) $6000 \div 100 = \underline{60}$

d) $30 \div 10 = \underline{3}$

e) $240 \div 10 = \underline{24}$

f) $1300 \div 100 = \underline{13}$

g) $2100 \div 10 = \underline{210}$

h) $56 \div 1 = \underline{56}$

i) $330 \div 10 = \underline{33}$

j) $4700 \div 10 = \underline{470}$

k) $5100 \div 100 = \underline{51}$

l) $29 \div 1 = \underline{29}$

m) $47 \div 1 = \underline{47}$

n) $300 \div 100 = \underline{3}$

o) $130 \div 10 = \underline{13}$

3. How many metres?

$100 \text{ cm} = 1 \text{ m}$

a) $400 \text{ cm} = \underline{4} \text{ m}$

b) $600 \text{ cm} = \underline{6} \text{ m}$

c) $5000 \text{ cm} = \underline{50} \text{ m}$

d) $1300 \text{ cm} = \underline{13} \text{ m}$

e) $2700 \text{ cm} = \underline{27} \text{ m}$

f) $3000 \text{ cm} = \underline{30} \text{ m}$

g) $5500 \text{ cm} = \underline{55} \text{ m}$

h) $500 \text{ cm} = \underline{5} \text{ m}$

i) $2200 \text{ cm} = \underline{22} \text{ m}$

1. Multiply.

$$\text{a) } 147 \times 9 = \frac{100}{\quad} + \frac{40}{\quad} + \frac{7}{\underline{9}}$$

$$\underline{900} + \underline{360} + \underline{63} = \underline{1323}$$

$$\text{b) } 236 \times 3 = \frac{200}{\quad} + \frac{30}{\quad} + \frac{6}{\underline{3}}$$

$$\underline{600} + \underline{90} + \underline{18} = \underline{708}$$

$$\text{c) } 556 \times 5 = \frac{500}{\quad} + \frac{50}{\quad} + \frac{6}{\underline{5}}$$

$$\underline{2500} + \underline{250} + \underline{30} = \underline{2780}$$

$$\text{d) } 387 \times 4 = \frac{300}{\quad} + \frac{80}{\quad} + \frac{7}{\underline{4}}$$

$$\underline{1200} + \underline{320} + \underline{28} = \underline{1548}$$

$$\text{e) } 471 \times 6 = \frac{400}{\quad} + \frac{70}{\quad} + \frac{1}{\underline{6}}$$

$$\underline{2400} + \underline{420} + \underline{6} = \underline{2826}$$

$$\text{f) } 789 \times 8 = \frac{700}{\quad} + \frac{80}{\quad} + \frac{9}{\underline{\quad}}$$

$$\underline{5600} + \underline{640} + \underline{72} = \underline{6312}$$

2. Multiply.

$$\text{a) } \begin{array}{r} 346 \\ \times 8 \\ \hline \end{array}$$

$$\underline{8}$$

$$48$$

$$320$$

$$2400$$

$$\underline{2768}$$

$$8 \times 6$$

$$8 \times 40$$

$$8 \times 300$$

$$\text{b) } \begin{array}{r} 137 \\ \times 6 \\ \hline \end{array}$$

$$\underline{6}$$

$$42$$

$$180$$

$$600$$

$$\underline{822}$$

$$6 \times 7$$

$$6 \times 30$$

$$6 \times 100$$

$$\text{c) } \begin{array}{r} 587 \\ \times 3 \\ \hline \end{array}$$

$$\underline{3}$$

$$21$$

$$240$$

$$1500$$

$$\underline{1761}$$

$$3 \times 7$$

$$3 \times 80$$

$$3 \times 500$$

$$\text{d) } \begin{array}{r} 256 \\ \times 8 \\ \hline \end{array}$$

$$\underline{8}$$

$$48$$

$$400$$

$$1600$$

$$\underline{2048}$$

$$\text{e) } \begin{array}{r} 931 \\ \times 3 \\ \hline \end{array}$$

$$\underline{3}$$

$$3$$

$$90$$

$$2700$$

$$\underline{2793}$$

$$\text{f) } \begin{array}{r} 556 \\ \times 8 \\ \hline \end{array}$$

$$\underline{8}$$

$$48$$

$$400$$

$$4000$$

$$\underline{4448}$$

$$\text{g) } \begin{array}{r} 862 \\ \times 6 \\ \hline \end{array}$$

$$\underline{6}$$

$$12$$

$$360$$

$$4800$$

$$\underline{5172}$$

$$\text{h) } \begin{array}{r} 439 \\ \times 7 \\ \hline \end{array}$$

$$\underline{7}$$

$$63$$

$$210$$

$$2800$$

$$\underline{3073}$$

$$\text{i) } \begin{array}{r} 654 \\ \times 9 \\ \hline \end{array}$$

$$\underline{9}$$

$$36$$

$$450$$

$$5400$$

$$\underline{5886}$$

1. Multiply. Estimate first, then use the short form.

a) 215 by 9

$$\begin{array}{r} 215 \\ \times 9 \\ \hline 1935 \end{array}$$

Think Record
45 5
9, 13 3
18, 19 19

Estimate:

215×9 is about

$$\underline{200} \times \underline{10} = \underline{2000}$$

The estimate is close to the answer.

b) 392 by 4

$$\begin{array}{r} 392 \\ \times 4 \\ \hline \end{array}$$

Estimate:

392×4 is about

$$\underline{400} \times \underline{4} = \underline{1600}$$

$$1568$$

c) 198 by 8

$$\begin{array}{r} 198 \\ \times 8 \\ \hline \end{array}$$

Estimate:

198×8 is about

$$\underline{200} \times \underline{8} = \underline{1600}$$

$$1584$$

d) 407 by 6

$$\begin{array}{r} 407 \\ \times 6 \\ \hline \end{array}$$

Estimate:

407×6 is about

$$\underline{400} \times \underline{6} = \underline{2400}$$

$$2442$$

e) 321 by 2

$$\begin{array}{r} 321 \\ \times 2 \\ \hline \end{array}$$

Estimate:

321×2 is about

$$\underline{300} \times \underline{2} = \underline{600}$$

$$642$$

f) 590 by 7

$$\begin{array}{r} 590 \\ \times 7 \\ \hline \end{array}$$

Estimate:

590×7 is about

$$\underline{600} \times \underline{7} = \underline{4200}$$

$$4130$$

g) 415 by 8

$$\begin{array}{r} 415 \\ \times 8 \\ \hline \end{array}$$

Estimate:

415×8 is about

$$\underline{400} \times \underline{8} = \underline{3200}$$

$$3320$$

h) 568 by 4

$$\begin{array}{r} 568 \\ \times 4 \\ \hline \end{array}$$

Estimate:

568×4 is about

$$\underline{600} \times \underline{4} = \underline{2400}$$

$$2272$$

i) 387 by 3

$$\begin{array}{r} 387 \\ \times 3 \\ \hline \end{array}$$

Estimate:

387×3 is about

$$\underline{400} \times \underline{3} = \underline{1200}$$

$$1161$$

j) 707 by 7

$$\begin{array}{r} 707 \\ \times 7 \\ \hline \end{array}$$

Estimate:

707×7 is about

$$\underline{700} \times \underline{7} = \underline{4900}$$

$$4949$$

k) 620 by 8

$$\begin{array}{r} 620 \\ \times 8 \\ \hline \end{array}$$

Estimate:

620×8 is about

$$\underline{600} \times \underline{8} = \underline{4800}$$

$$4960$$

l) 795 by 4

$$\begin{array}{r} 795 \\ \times 4 \\ \hline \end{array}$$

Estimate:

795×4 is about

$$\underline{800} \times \underline{4} = \underline{3200}$$

$$3180$$

1. Divide.

$$\begin{array}{r} 3 \overline{) 370} \\ \underline{300} \\ 70 \\ \underline{60} \\ 10 \\ \underline{9} \\ 1 \end{array} \quad \begin{array}{l} 100 \\ 20 \\ 3 \end{array}$$

$$370 \div 3 = \underline{123R1}$$

How many threes in 370?
At least 100.
How many threes in 70?
At least 20.
How many threes in 10?
At least 3.

$$\begin{array}{r} 6 \overline{) 650} \\ \underline{600} \\ 50 \\ \underline{48} \\ 2 \end{array} \quad \begin{array}{l} 100 \\ 8 \\ 108 \end{array}$$

$$650 \div 6 = \underline{108R2}$$

$$\begin{array}{r} 5 \overline{) 340} \\ \underline{300} \\ 40 \\ \underline{40} \\ 0 \end{array} \quad \begin{array}{l} 60 \\ 8 \\ 68 \end{array}$$

$$340 \div 5 = \underline{68}$$

$$\begin{array}{r} 7 \overline{) 749} \\ \underline{700} \\ 49 \\ \underline{49} \\ 0 \end{array} \quad \begin{array}{l} 100 \\ 7 \\ 107 \end{array}$$

$$749 \div 7 = \underline{107}$$

$$\begin{array}{r} 4 \overline{) 496} \\ \underline{400} \\ 96 \\ \underline{80} \\ 16 \\ \underline{16} \\ 0 \end{array} \quad \begin{array}{l} 100 \\ 20 \\ 4 \\ 124 \end{array}$$

$$496 \div 4 = \underline{124}$$

$$\begin{array}{r} 6 \overline{) 672} \\ \underline{600} \\ 72 \\ \underline{60} \\ 12 \\ \underline{12} \\ 0 \end{array} \quad \begin{array}{l} 100 \\ 10 \\ 2 \\ 112 \end{array}$$

$$672 \div 6 = \underline{112}$$

$$\begin{array}{r} 9 \overline{) 981} \\ \underline{900} \\ 81 \\ \underline{81} \\ 0 \end{array} \quad \begin{array}{l} 100 \\ 9 \\ 109 \end{array}$$

$$981 \div 9 = \underline{109}$$

$$\begin{array}{r} 2 \overline{) 480} \\ \underline{400} \\ 80 \\ \underline{80} \\ 0 \end{array} \quad \begin{array}{l} 200 \\ 40 \\ 240 \end{array}$$

$$480 \div 2 = \underline{240}$$

$$\begin{array}{r} 4 \overline{) 670} \\ \underline{400} \\ 270 \\ \underline{240} \\ 30 \\ \underline{28} \\ 2 \end{array} \quad \begin{array}{l} 100 \\ 60 \\ 7 \\ 167 \end{array}$$

$$670 \div 4 = \underline{167R2}$$

$$\begin{array}{r} 8 \overline{) 984} \\ \underline{800} \\ 184 \\ \underline{160} \\ 24 \\ \underline{24} \\ 0 \end{array} \quad \begin{array}{l} 100 \\ 20 \\ 3 \\ 123 \end{array}$$

$$984 \div 8 = \underline{123}$$

$$\begin{array}{r} 5 \overline{) 905} \\ \underline{500} \\ 405 \\ \underline{400} \\ 5 \\ \underline{5} \\ 0 \end{array} \quad \begin{array}{l} 100 \\ 80 \\ 1 \\ 181 \end{array}$$

$$905 \div 5 = \underline{181}$$

$$\begin{array}{r} 7 \overline{) 827} \\ \underline{700} \\ 127 \\ \underline{70} \\ 57 \\ \underline{56} \\ 1 \end{array} \quad \begin{array}{l} 100 \\ 10 \\ 8 \\ 118 \end{array}$$

$$827 \div 7 = \underline{118R1}$$

$$\begin{array}{r} 5 \overline{) 452} \\ \underline{450} \\ 2 \end{array} \quad \begin{array}{l} 90 \\ 2 \end{array}$$

$$452 \div 5 = \underline{90R2}$$

$$\begin{array}{r} 6 \overline{) 729} \\ \underline{600} \\ 129 \\ \underline{120} \\ 9 \\ \underline{6} \\ 3 \end{array} \quad \begin{array}{l} 100 \\ 20 \\ 1 \\ 121 \end{array}$$

$$729 \div 6 = \underline{121R3}$$

$$\begin{array}{r} 8 \overline{) 738} \\ \underline{720} \\ 18 \\ \underline{16} \\ 2 \end{array} \quad \begin{array}{l} 90 \\ 2 \\ 92 \end{array}$$

$$738 \div 8 = \underline{92R2}$$

1. Divide.

$$\begin{array}{r}
 \text{a) } 2 \overline{)496} \\
 \underline{200} \quad 100 \\
 296 \\
 \underline{200} \quad 100 \\
 96 \\
 \underline{80} \quad 40 \\
 16 \\
 \underline{16} \quad 8 \\
 0 \quad 248
 \end{array}$$

$$496 \div 2 = \underline{248}$$

$$\begin{array}{r}
 \text{b) } 3 \overline{)740} \\
 \underline{300} \quad 100 \\
 440 \\
 \underline{300} \quad 100 \\
 140 \\
 \underline{120} \quad 40 \\
 20 \\
 \underline{18} \quad 6 \\
 2 \quad 246
 \end{array}$$

$$740 \div 3 = \underline{\hspace{2cm}}$$

$$\begin{array}{r}
 \text{c) } 2 \overline{)506} \\
 \underline{200} \quad 100 \\
 306 \\
 \underline{200} \quad 100 \\
 106 \\
 \underline{100} \quad 50 \\
 6 \\
 \underline{6} \quad 3 \\
 0 \quad 253
 \end{array}$$

$$506 \div 2 = \underline{\hspace{2cm}}$$

$$\begin{array}{r}
 \text{d) } 4 \overline{)958} \\
 \underline{400} \quad 100 \\
 558 \\
 \underline{400} \quad 100 \\
 158 \\
 \underline{120} \quad 30 \\
 38 \\
 \underline{36} \quad 9 \\
 2 \quad 239
 \end{array}$$

$$958 \div 4 = \underline{\hspace{2cm}}$$

$$\begin{array}{r}
 \text{e) } 5 \overline{)999} \\
 \underline{500} \quad 100 \\
 499 \\
 \underline{450} \quad 90 \\
 49 \\
 \underline{45} \quad 9 \\
 4 \quad 199
 \end{array}$$

$$999 \div 5 = \underline{199R4}$$

$$\begin{array}{r}
 \text{f) } 4 \overline{)871} \\
 \underline{400} \quad 100 \\
 471 \\
 \underline{400} \quad 100 \\
 71 \\
 \underline{40} \quad 10 \\
 31 \\
 \underline{28} \quad 7 \\
 3 \quad 217
 \end{array}$$

$$871 \div 4 = \underline{217R3}$$

$$\begin{array}{r}
 \text{g) } 2 \overline{)622} \\
 \underline{200} \quad 100 \\
 422 \\
 \underline{200} \quad 100 \\
 222 \\
 \underline{200} \quad 100 \\
 22 \\
 \underline{22} \quad 11 \\
 0 \quad 311
 \end{array}$$

$$622 \div 2 = \underline{311}$$

$$\begin{array}{r}
 \text{h) } 3 \overline{)833} \\
 \underline{300} \quad 100 \\
 533 \\
 \underline{300} \quad 100 \\
 233 \\
 \underline{210} \quad 70 \\
 23 \\
 \underline{21} \quad 7 \\
 2 \quad 277
 \end{array}$$

$$833 \div 3 = \underline{277R2}$$

$$\begin{array}{r}
 \text{i) } 4 \overline{)749} \\
 \underline{400} \quad 100 \\
 349 \\
 \underline{320} \quad 80 \\
 29 \\
 \underline{28} \quad 7 \\
 1 \quad 187
 \end{array}$$

$$749 \div 4 = \underline{187R1}$$

$$\begin{array}{r}
 \text{j) } 5 \overline{)786} \\
 \underline{500} \quad 100 \\
 286 \\
 \underline{250} \quad 50 \\
 36 \\
 \underline{35} \quad 7 \\
 1 \quad 157
 \end{array}$$

$$786 \div 5 = \underline{157R1}$$

$$\begin{array}{r}
 \text{k) } 3 \overline{)592} \\
 \underline{300} \quad 100 \\
 292 \\
 \underline{270} \quad 90 \\
 22 \\
 \underline{21} \quad 7 \\
 1 \quad 197
 \end{array}$$

$$592 \div 3 = \underline{197R1}$$

$$\begin{array}{r}
 \text{l) } 4 \overline{)695} \\
 \underline{400} \quad 100 \\
 295 \\
 \underline{280} \quad 70 \\
 15 \\
 \underline{12} \quad 3 \\
 3 \quad 173
 \end{array}$$

$$695 \div 4 = \underline{173R3}$$

1. Complete the patterns.

a) $2 \times 5 = 10$

$20 \times 5 = 100$

$20 \times 50 = 1000$

b) $4 \times 7 = 28$

$40 \times 7 = 280$

$40 \times 70 = 2800$

c) $2 \times 8 = 16$

$20 \times 8 = 160$

$20 \times 80 = 1600$

d) $5 \times 4 = 20$

$5 \times 40 = 200$

$50 \times 40 = 2000$

e) $3 \times 7 = 21$

$3 \times 70 = 210$

$30 \times 70 = 2100$

f) $5 \times 6 = 30$

$5 \times 60 = 300$

$50 \times 60 = 3000$

g) $8 \times 7 = 56$

$80 \times 7 = 560$

$80 \times 70 = 5600$

h) $2 \times 9 = 18$

$2 \times 90 = 180$

$20 \times 90 = 1800$

i) $4 \times 6 = 24$

$4 \times 60 = 240$

$40 \times 60 = 2400$

j) $9 \times 9 = 81$

$90 \times 9 = 810$

$90 \times 90 = 8100$

k) $5 \times 5 = 25$

$50 \times 5 = 250$

$50 \times 50 = 2500$

l) $4 \times 4 = 16$

$4 \times 40 = 160$

$40 \times 40 = 1600$

2. Multiply.

a) $20 \times 20 = 400$

b) $30 \times 50 = 1500$

c) $60 \times 20 = 1200$

d) $20 \times 40 = 800$

e) $10 \times 80 = 800$

f) $60 \times 30 = 1800$

g) $50 \times 60 = 3000$

h) $40 \times 70 = 2800$

i) $20 \times 70 = 1400$

j) $30 \times 90 = 2700$

k) $40 \times 80 = 3200$

l) $50 \times 70 = 3500$

3. Write two 2-digit factors for each product.

a) $30 \times 50 = 1500$

b) $30 \times 70 = 2100$

c) $20 \times 80 = 1600$

d) $\underline{\quad} \times \underline{\quad} = 2500$

e) $30 \times 100 = 3000$

f) $40 \times 70 = 2800$

1. Complete.

$$\begin{aligned}
 \text{a) } 24 \times 30 &= \underline{24} \times (\underline{10} \times \underline{3}) \\
 &= \underline{24} \times \underline{10} \times \underline{3} \\
 &= \underline{240} \times \underline{3} \\
 &= \underline{720}
 \end{aligned}$$

$$\begin{aligned}
 \text{b) } 42 \times 20 &= 42 \times (10 \times 2) \\
 &= 42 \times 10 \times \underline{2} \\
 &= \underline{420} \times 2 \\
 &= \underline{840}
 \end{aligned}$$

$$\text{c) } 31 \times 40 = 31 \times (10 \times 4)$$

$$\begin{aligned}
 &= 31 \times 10 \times \underline{4} \\
 &= \underline{310} \times 4 \\
 &= \underline{1240}
 \end{aligned}$$

$$\text{d) } 27 \times 40 = 27 \times (10 \times 4)$$

$$\begin{aligned}
 &= \underline{27} \times \underline{10} \times 4 \\
 &= \underline{270} \times 4 \\
 &= \underline{1080}
 \end{aligned}$$

$$\text{e) } 19 \times 50 = 19 \times (10 \times 5)$$

$$\begin{aligned}
 &= 19 \times \underline{10} \times \underline{5} \\
 &= \underline{190} \times 5 \\
 &= \underline{950}
 \end{aligned}$$

$$\text{f) } 39 \times 30 = 39 \times (10 \times 3)$$

$$\begin{aligned}
 &= \underline{39} \times \underline{10} \times 3 \\
 &= \underline{390} \times 3 \\
 &= \underline{1170}
 \end{aligned}$$

$$\begin{aligned}
 \text{g) } 48 \times 30 &= 48 \times (\underline{10} \times \underline{3}) \\
 &= \underline{48} \times \underline{10} \times \underline{3} \\
 &= \underline{480} \times \underline{3} \\
 &= \underline{1440}
 \end{aligned}$$

$$\begin{aligned}
 \text{h) } 55 \times 20 &= \underline{55} \times (\underline{10} \times \underline{2}) \\
 &= \underline{55} \times \underline{10} \times \underline{2} \\
 &= \underline{550} \times \underline{2} \\
 &= \underline{1100}
 \end{aligned}$$

$$\begin{aligned}
 \text{i) } 56 \times 40 &= \underline{56} \times (\underline{10} \times \underline{4}) \\
 &= \underline{56} \times \underline{10} \times \underline{4} \\
 &= \underline{560} \times \underline{4} \\
 &= \underline{\quad\quad\quad}
 \end{aligned}$$

$$\begin{aligned}
 \text{j) } 38 \times 80 &= \underline{38} \times (\underline{10} \times \underline{8}) \\
 &= \underline{38} \times \underline{10} \times \underline{8} \\
 &= \underline{380} \times \underline{8} \\
 &= \underline{3040}
 \end{aligned}$$

1. Complete.

a)

$$\begin{array}{r}
 54 \\
 \times 36 \\
 \hline
 324 \\
 162 \\
 \hline
 1944
 \end{array}$$

Think Record

24	4
30, 32	32
next row	
12	2 one place left
15, 16	16

b) 49

$$\begin{array}{r}
 49 \\
 \times 22 \\
 \hline
 98 \\
 98 \\
 \hline
 1078
 \end{array}$$

$$\begin{array}{l}
 2 \times 49 \\
 20 \times 49
 \end{array}$$

c) 51

$$\begin{array}{r}
 51 \\
 \times 19 \\
 \hline
 459 \\
 51 \\
 \hline
 969
 \end{array}$$

$$\begin{array}{l}
 9 \times 51 \\
 10 \times 51
 \end{array}$$

d) 82

$$\begin{array}{r}
 82 \\
 \times 26 \\
 \hline
 492 \\
 164 \\
 \hline
 2132
 \end{array}$$

$$\begin{array}{l}
 6 \times 82 \\
 20 \times 82
 \end{array}$$

e) 71

$$\begin{array}{r}
 71 \\
 \times 35 \\
 \hline
 355 \\
 213 \\
 \hline
 2485
 \end{array}$$

$$\begin{array}{l}
 5 \times 71 \\
 30 \times 71
 \end{array}$$

f) 48

$$\begin{array}{r}
 48 \\
 \times 29 \\
 \hline
 432 \\
 96 \\
 \hline
 1392
 \end{array}$$

$$\begin{array}{l}
 9 \times 48 \\
 20 \times 48
 \end{array}$$

g) 37

$$\begin{array}{r}
 37 \\
 \times 15 \\
 \hline
 185 \\
 37 \\
 \hline
 555
 \end{array}$$

$$\begin{array}{l}
 5 \times 37 \\
 10 \times 37
 \end{array}$$

h) 28

$$\begin{array}{r}
 28 \\
 \times 22 \\
 \hline
 56 \\
 56 \\
 \hline
 616
 \end{array}$$

$$\begin{array}{l}
 2 \times 28 \\
 20 \times 28
 \end{array}$$

i) 55

$$\begin{array}{r}
 55 \\
 \times 13 \\
 \hline
 165 \\
 55 \\
 \hline
 715
 \end{array}$$

$$\begin{array}{l}
 3 \times 55 \\
 10 \times 55
 \end{array}$$

j) 62

$$\begin{array}{r}
 62 \\
 \times 41 \\
 \hline
 62 \\
 248 \\
 \hline
 2542
 \end{array}$$

$$\begin{array}{l}
 1 \times 62 \\
 40 \times 62
 \end{array}$$

k) 74

$$\begin{array}{r}
 74 \\
 \times 21 \\
 \hline
 74 \\
 148 \\
 \hline
 1554
 \end{array}$$

$$\begin{array}{l}
 1 \times 74 \\
 20 \times 74
 \end{array}$$

l) 67

$$\begin{array}{r}
 67 \\
 \times 28 \\
 \hline
 536 \\
 134 \\
 \hline
 1876
 \end{array}$$

m) 46

$$\begin{array}{r}
 46 \\
 \times 53 \\
 \hline
 138 \\
 23 \\
 \hline
 2438
 \end{array}$$

n) 29

$$\begin{array}{r}
 29 \\
 \times 18 \\
 \hline
 232 \\
 29 \\
 \hline
 522
 \end{array}$$

1. Multiply. Check by estimating.

a) 29 by 42

$$\begin{array}{r} 29 \times 2 \\ 29 \times 40 \end{array}$$

$$\begin{array}{r} 29 \\ 42 \\ \hline 58 \\ 116 \\ \hline 1218 \end{array}$$

Think Record

18	8
4, 5	5
next row	
36	6 one place left
8, 11	11

Check:

29 is about 3042 is about 40

$$\underline{30} \times \underline{40} = \underline{1200}$$

the answer is reasonable

b) 97 by 27

$$\begin{array}{r} 97 \\ 27 \\ \hline 679 \\ 194 \\ \hline 2619 \end{array}$$

Check:

97 is about 10027 is about 30

$$\underline{100} \times \underline{30} = \underline{3000}$$

c) 42 by 32

$$\begin{array}{r} 42 \\ 32 \\ \hline 84 \\ 126 \\ \hline 1344 \end{array}$$

Check:

42 is about 4032 is about 30

$$\underline{40} \times \underline{30} = \underline{1200}$$

d) 52 by 18

$$\begin{array}{r} 52 \\ 18 \\ \hline 416 \\ 52 \\ \hline 936 \end{array}$$

Check:

52 is about 5018 is about 20

$$\underline{50} \times \underline{20} = \underline{1000}$$

e) 79 by 28

$$\begin{array}{r} 79 \\ 28 \\ \hline 632 \\ 158 \\ \hline 2212 \end{array}$$

Check:

79 is about 8028 is about 30

$$\underline{80} \times \underline{30} = \underline{2400}$$

f) 47 by 23

$$\begin{array}{r} 47 \\ 23 \\ \hline 141 \\ 94 \\ \hline 1081 \end{array}$$

Check:

47 is about 5023 is about 20

$$\underline{50} \times \underline{20} = \underline{1000}$$

g) 58 by 27

$$\begin{array}{r} 58 \\ 27 \\ \hline 406 \\ 116 \\ \hline 1566 \end{array}$$

Check:

58 is about 6027 is about 30

$$\underline{60} \times \underline{30} = \underline{1800}$$

h) 58 by 32

$$\begin{array}{r} 58 \\ 32 \\ \hline 116 \\ 174 \\ \hline 1856 \end{array}$$

Check:

58 is about 6032 is about 30

$$\underline{60} \times \underline{30} = \underline{1800}$$

i) 31 by 29

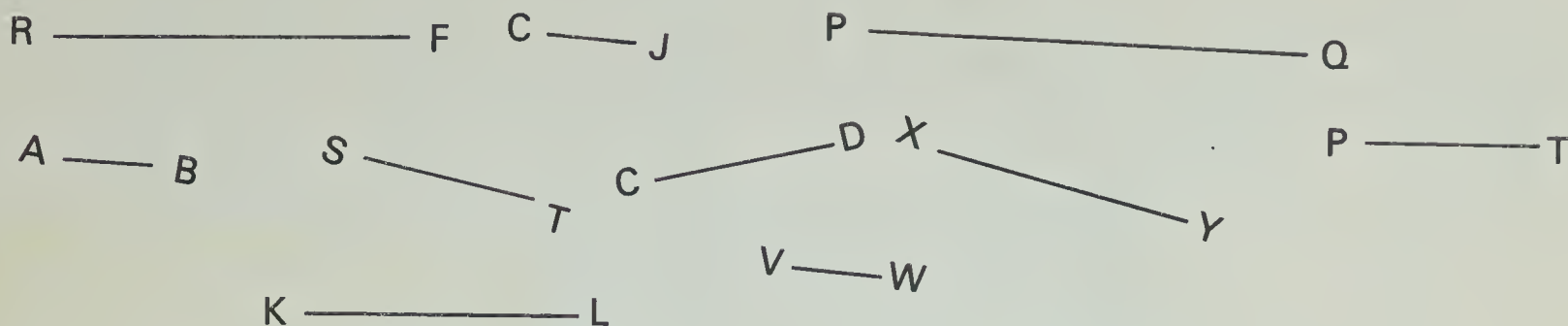
$$\begin{array}{r} 31 \\ 29 \\ \hline 279 \\ 62 \\ \hline 899 \end{array}$$

Check:

31 is about 3029 is about 30

$$\underline{30} \times \underline{30} = \underline{900}$$

1. Estimate, then measure, each line segment.



Line segment	Estimated length in millimetres	Measured length in millimetres	Line segment	Estimated length in millimetres	Measured length in millimetres
RF	50 mm	40 mm	CD		25 mm
AB		10 mm	VW	estimates will vary	10 mm
KL	estimates will vary	30 mm	PQ	estimates will vary	50 mm
ST		20 mm	XY		30 mm
CJ		10 mm	PT		20 mm

2. On each line segment, mark off and write the length.

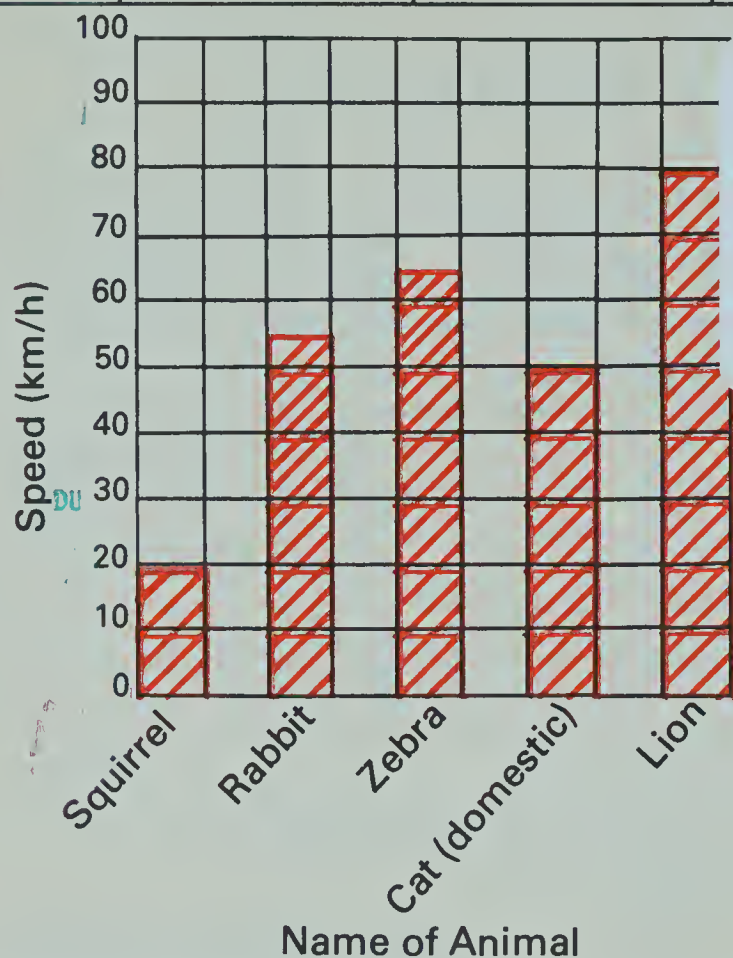
a) 10 mm b) 20 mm c) 30 mm d) 40 mm e) 15 mm f) 25 mm

3. Complete.

a) 1 m = 100 cm b) 200 cm = 2 m c) 5 cm = 50 mm
d) 1 km = 1000 m e) 2000 m = 2 km f) 40 mm = 4 cm
g) 50 cm = 500 mm h) 4000 m = 4 km i) 500 cm = 5 m
j) 3 km = 3000 m k) 25 cm = 250 mm l) 15 m = 1500 cm
m) 380 cm = 3.8 m n) 270 mm = 27 cm o) 16 m = 1600 cm

Running Speeds of Animals

Animal	squirrel	cat (domestic)	rabbit	zebra	lion
Speed (km/h)	20	50	55	65	80

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1. Complete the graph by drawing bars for the information.

2. Answer questions about your graph.

a) Which is the fastest animal? LIONb) Which is the slowest animal? SQUIRRELc) Approximately how fast can a rabbit run? 55 km/h

d) How much faster than a cat can a zebra run?

15 km/h

e) How much faster than a squirrel can a rabbit run?

35 km/h

f) Humans can run at approximately 45 km/h.

How much faster than a squirrel can humans run?

25 km/h

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W. W. Bates
Olive Fullerton
Paul Barber



Copp Clark

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